003

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

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AMENDED REPORT [] (highlight changes)

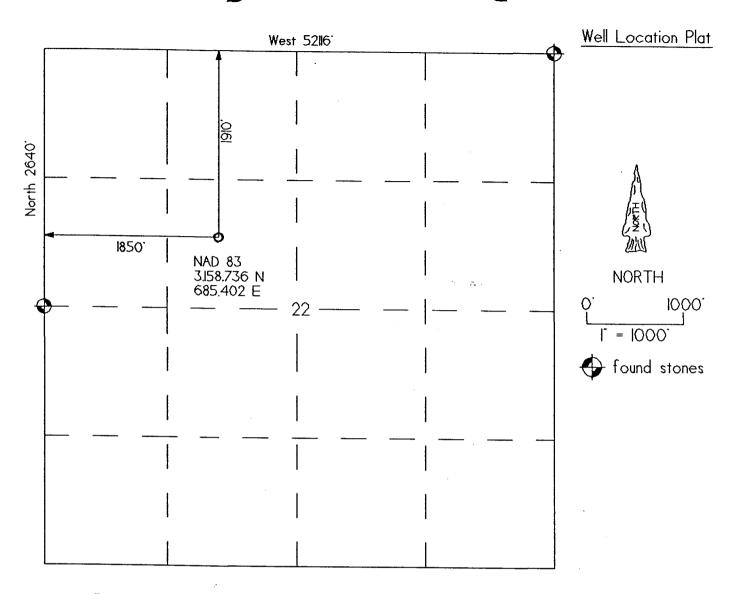
	API	PLICATION FOR	PERMIT TO	DRILL			SIGNATION AND S	
1A, TYPE OF WO	RK: DRILI	L PREENTER [DEEPEN [6. IF INDIAN,	ALLOTTEE OR FR	L-47152 IBE NAME:
B, TYPE OF WEL	ı: OIL 🖸 GA	AS ☐ OTHER	SINC	GLE ZONE MULTIPLE Z	ONE IZ	7. UNIT or CA	AGRÉEMENT NAI	N/A ME:
2. NAME OF OPE		Onen	- Onto	DEE ZONE [] MOETIN EE Z	ONLE	9 MELL MA	ME and NUMBER:	N/A
ST OIL CON		1801 BROADWA	AY, SUITE 600)				12-36-74
3. ADDRESS OF 0	. \			PHONE NUMBER:	4.0.0	9 FIELD AND	POOL, OR WILDO	
4. LOCATION OF	WELL (FOOTAGES)	DENVER ST	ATE () ZIP {			10. QTR/QTR	WILDCAT R. SECTION, TOWN	ISHIP, RANGE,
AT SURFACE:		1910 FN	L & 1850	42154824 38.0 FWL 641544X-109,	281-22	MERIDIAN	l :	
AT PROPOSED	PRODUCING ZONE:	SAME	- u 1000	6415442	/3· () F. F.	SEN	W 2 2 3 1	s 23e SL
		ON FROM NEAREST TOWN OR P	OST OFFICE:			11. COUNTY		12. STATE: UTAH
		MONTICELLO					JUAN	
14. DISTANCE IC	NEAREST PROPERT	Y OR LEASE LINE (FEET)	_	ACRES IN LEASE:	16. N	JMBER OF AC	RES ASSIGNED TO	
17, DISTANCE TO	O NEAREST WELL (DR	590 RILLING, COMPLETED, OR	18. PROPOSED	,440 DEPTH:	19. B	OND DESCRIP	TION:	40
APPLIED FOR	R) ON THIS LEASE (FE	ET) N/A	Α,	5,428				\$20,000
20. ELEVATIONS	(SHOW WHETHER DE		1 \	ATE DATE WORK WILL START:	22. E	STIMATED DUI	RATION:	Ψ20,000
		6,498' GI	? \ \	NUGUST 15, 2002				2 WEEKS
23.		PROPO	SED CASING A	NO CEMENTING PROGRA	M			
SIZE OF HOLE	CASING SIZE, GRA	ADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE	, QUANTITY,	YIELD, AND S	LURRY WEIGHT	
12-1/4	9-5/8	J/K-55 36#	1,350'	LITE & STAND.	50	O SX	VARY	VARY
7-7/8	5-1/2	K-55 15.5#	5,428'	CLASS &	20	0 SX	1.56	1.3
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		- Just /						
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		WW. J. J. C.			$\overline{}$	·		
24.		1 May 1	ATTA	CHMENTS	\			
VERIFY THE FOL	LOWING ARE ATTACH	HED IN ACCORDANCE WITH TH	E UTAH OIL AND GAS C	ONSERVATION GENERAL RULES:				
WELL PL	AT OR MAP PREPARE	ED BY LICENSED SURVEYOR OF	PENGINEED	COMPLETE DRILLING PI	A & 1			
		ATER RIGHTS APPROVAL FOR I				00 0040404	OT 150 T 144 T 15	
	SE OF DIVISION OF W	ATER RIGHTS APPROVAL FOR I	USE OF WATER	FORM 5, IF OPERATOR	IS PERSON	JR COMPANY	OTHER THAN THE	E LEASE OWNER
	BRIA	AN WQOD 1	505) 466-8	8120			C	ONSULTANT
NAME (PLEASE	PRINT)	7		TITLE				
SIGNATURE	- Juan	(1002)		DATE				7-20-02
(This space for Sta	ate use only)							
	_							
API NUMBER AS	SIGNED: 43-	037-31825		APPROVAL:	F	ECI	EIVE	D

(5/2000)

(See Instructions on Reverse Side)

JUL 2 2 2002

DIVISION OF OIL, GAS AND MINING



Well Location Description

ST OIL CCOMPANY
Marie Ogden State # I
1910' FNL & 1850' FWL
Section 22. T.31 S., R.23 E., SLM
San Juan County, UT
6498' grd. el. (from GPS)

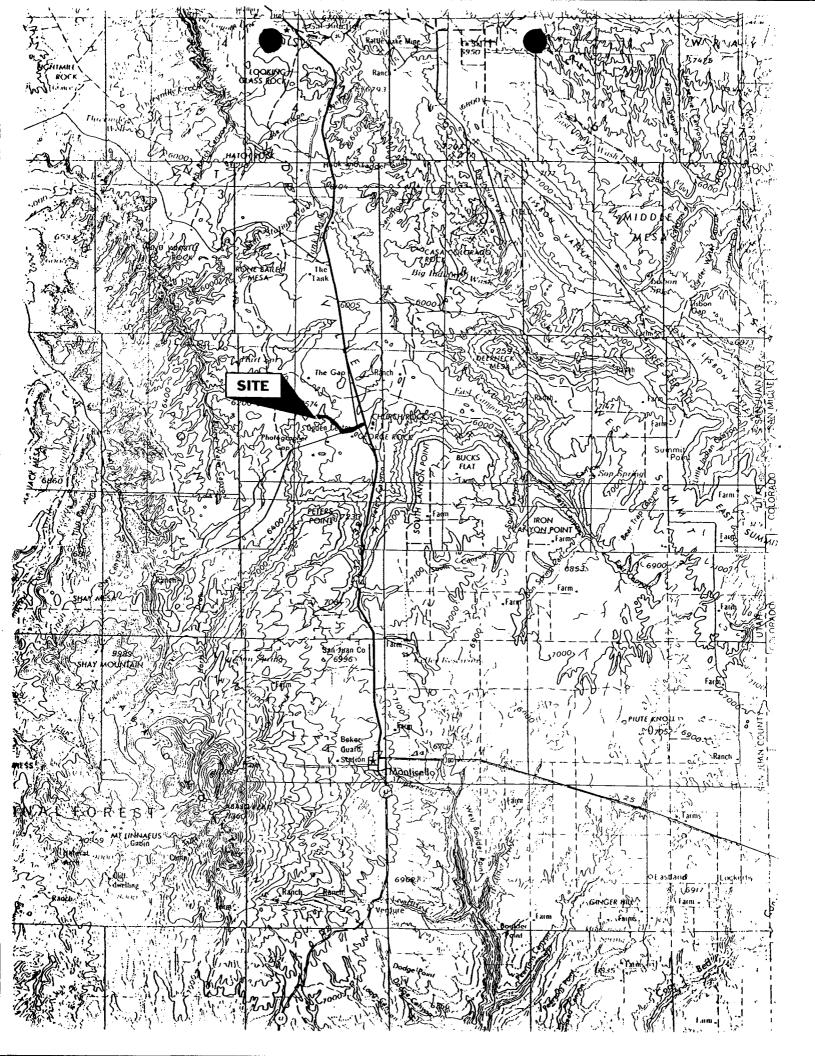


8 May 2002

Dardo Z Haddatos

Gerald G. Huddleston. LS

The above is true and correct to my knowledge and belief.



ST Oil Company Marie Ogden State #1 1910' FNL & 1850' FWL Sec. 22, T. 31 S., R. 23 E. San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Drilling Program

1. FORMATION TOPS

The estimated tops of important geologic markers are:

GL Depth	KB Depth	Elevation
00'	12'	+6,498'
413'	425'	+6,085'
1,333'	1,345'	+5,165'
1,450'	1,462'	+5,048'
5,053'	5,065'	+1,445'
5,212'	5,224'	+1,286'
5,098'	5,110'	+1,400'
5,113'	5,125'	+1,385'
5,312'	5,324'	+1,186'
5,362'	5,374'	+1,136'
5,422'	5,434'	+1,076'
5,428'	5,440'	+681'
	00' 413' 1,333' 1,450' 5,053' 5,212' 5,098' 5,113' 5,312' 5,362' 5,422'	00'12'413'425'1,333'1,345'1,450'1,462'5,053'5,065'5,212'5,224'5,098'5,110'5,113'5,125'5,312'5,324'5,362'5,374'5,422'5,434'

^{*} all elevations reflect the proposed graded ground level of 6,498'

2. NOTABLE ZONES

Oil and gas are goals in the Ismay and Desert Creek. Fresh water may be found in the Entrada to Navajo interval. Oil and gas shows which appear to the well site geologist to be commercial will be tested. All fresh water and prospectively valuable minerals will be recorded by depth and protected with casing and cement.

3. PRESSURE CONTROL



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A 13-5/8" 3,000 psi double ram and annular preventer with a 3,000 psi choke manifold will be used. A diagram of a typical BOP is on Page 3. Actual model will not be known until bid is let. Procedures are ...

- Nipple up BOP and all equipment Test to 250 #/3,000# Test Hydril to 2,000 psi Log in I. A. D. C. book

- Drill shoe joint

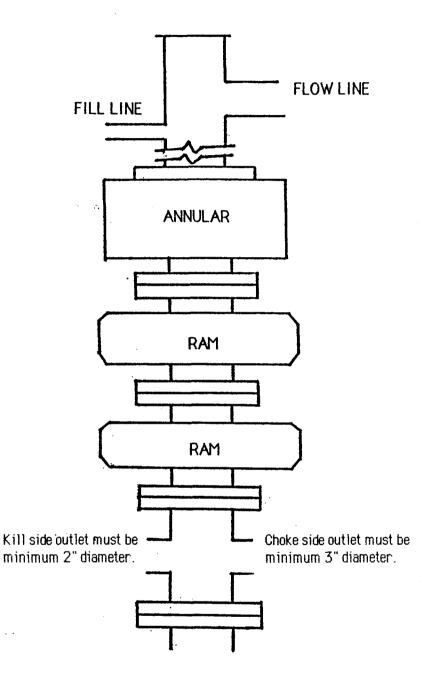
Test to 1,500 psi for 30 minutes Log in I. A. D. C. book

- Activate BOPs every 24 hours or on trips and log in I. A. D. C. book
- Install hand wheels and lay straight flare lines before drilling out
- Conduct weekly BOP drills with each crew and log in I. A. D. C. book
- Have floor valve and wrench on floor at all times
 Floor valve must be in open position
- Before drilling surface casing shoes, blind rams will be closed. BOP and surface casing will be pressure tested to 1,500 psi for a total test time of 30 minutes if not previously tested by Halliburton during cement job.
- Studs on all well head and BOP flanges will be checked for tightness each week
- Hand wheels for locking screws will be installed and operational
- Entire BOP and well head assembly will be kept clean of mud
- A drill stem safety valve in the open position will be available
- Call Utah Division of Oil, Gas, & Mining (801 538-5340) before testing BOPs

4. CASING & CEMENT

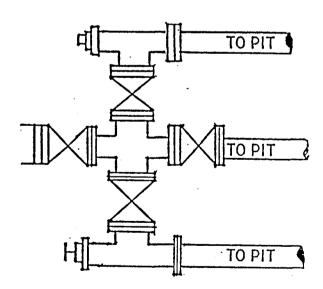
Hole Size	<u>O. D.</u>	<u>Burst</u>	<u>Collapse</u>	Weight	<u>Grade</u>	<u>Thread</u>	Barrel/Foo	t <u>Depth</u>
20"	13-3/8"				Conductor Pipe	е		60'
12-1/4"	9-5/8"	3,520	2,020'	36#	J or K-55	ST&C	0.0773	1,350'
7-7/8"	5-1/2"	4.052	3.927	15.5 #	K-55	LT&C	0.0240	5,440'





TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.

Safety valve and subs will fit all drill string connections in use.

All BOPE connections subjected to well pressure will be flanged, welded, or clamped.



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Call the Utah Division of Oil, Gas, & Mining at (801) 538-5340 before running casing.

Surface casing will be cemented to the surface. Procedures are ...

- Use guide shoe. Insert float separated by one joint
- Casing fill should be checked at each joint when running
- Place centralizers 5' off the bottom and on the 1st, 2nd, 3rd, & 5th joints
- Baker-Loc guide shoe on both sides of collar between 1st and 2nd joints
- After casing is run, then circulate at least once until cuttings are clean
- Reciprocate pipe while circulating
- Lead with 300 sacks Halliburton Light + 2% CaCl₂ + 2% bentonite + 1/4 pound per sack Cello-Flake mixed at 12.3 pounds per gallon, 2.1 cubic feet per sack, and 11.66 gallons per sack water
- Tail with 200 sacks standard cement + 1% CaCl₂ + 1/4 pound per sack Cello-Flake mixed at 15.6 pounds per gallon, 1.19 cubic feet per sack, and 5.22 gallons per sack water
- If cement (100% excess) drops from surface, do 1" top job after 2 hours
- Release pressure, if float does not hold, then trap pressure equal to final displacement pressure and hold for six hours
- Surface casing can be pressure tested with cementing service pump truck immediately after checking float to 1,500 psi for 30 minutes. This will eliminate testing casing during BOP test.
- W.O.C. time will be six hours before nippling up
- Total time will be 12 hours before running BOP and drilling out

Production casing will be cemented to 500' above the top of the Upper Ismay. Procedures are ...

- All joints re to be inspected for damaged threads, rabbited, and properly doped with thread compound.
- Two 20' pup joints will be put into the string at a depth to be decided later
- Mill scale and varnish from casing where it crosses any potential pay zones
- Pump 10 bbl mud flush, 20 bbl mud flush, 10 bbl flush, tail, wash line @ cement head, displace



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- Tail with ≈200 sacks 50/50 poz mix with 5 pounds per sack gilsonite + 0.6 pounds per sack Halad 9 + 0.2 pounds per sack CFR-3 + fluid loss additive. Mix at 13 pounds per gallon, 1.56 cubic feet per sack, and 7.3 gallons water per sack. Theoretical excess = 90%. Actual volume will be based on caliper log with 5% excess.
- Halliburton will provide float, plugs, and shoe equipment. A differential fill float shoe will be on the bottom of the string. A differential float collar will be set two joints above the shoe if sufficient rat hole exists below the lowest productive zone.
- Centralizers will be placed on the shoe joint, top of the #2 and #3, and continue through and above the pay zones at 90'.

5. <u>MUD PROGRAM</u>

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss	<u>Type</u>
	8.3 - 8.7	27-32	N/C	Fresh H2O gel lime spud mud, pH 9
1350'-TD	8.4 - 10.0	38-44	8 cc	Fresh water gel & PHPA, SAPP, etc

Samples will be collected by the rig crew until the base of surface casing. Samples will be collected by a mud logger every 10' from ≈1,350' to TD.

6. CORING, TESTING, & LOGGING

Two conventional cores may be cut in the Lower Ismay and Desert Creek. Drill stem tested if warranted. Array Induction - GR logs will be run from TD to base of surface casing. Compensated Neutron - Litho Density - GR logs will be run from TD up hole $\approx 2,500$ '. Sonic Log - GR will be run from TD to base of surface casing.



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1910' FNL & 1850' FWL
Sec. 22, T. 31 S., R. 23 E.

PAGE 6

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7. DOWN HOLE CONDITIONS

San Juan County, Utah

No abnormal temperatures or pressures or hydrogen sulfide are expected. Maximum pressure will be $\approx 2,200$ psi. Hole deviation will be ≤ 1 to 500'. Directional surveys will be taken as needed and at TD.

8. OTHER INFORMATION

The anticipated spud date is August 15, 2002. It is expected it will take \approx 2 weeks to drill and \approx 2 weeks to complete the well.

Call the Utah Division of Oil, Gas, & Mining (801 538-5340) before plugging and abandoning the well.



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Surface Use Plan

1. DIRECTIONS (See Pages 12.& 13)

From the Monticello, go North 14 miles on US 191 to U-211
Then turn left and go West 0.95 mi. on paved U-211 to a faint dirt road
Then turn right and go NW 0.85 miles on a partially reclaimed dirt road
Then turn right and go NE 250' on a jeep trail
Then turn left and go N 500' on a less obvious jeep trail
Then switch back 75' NE away from the jeep trail
Then switch back 75' NW onto a rock bench
Then follow an old seismic trail W 1,675'
Then detour S away from the trail for 350'
The return to the seismic trail and continue W 300'
Then turn left and go SW cross country 125' to the proposed well

Roads will be maintained to a standard at least equal to their present condition.

2. ROAD WORK

The dirt contractor will call the archaeologist (CASA @ 970-565-9229) at least 48 hours before starting construction. The archaeologist will fence an archaeology site on the north side of the pad on top of the mesa before starting construction. The archaeologist will monitor construction.

The junction of the dirt road and U-211 will be upgraded. The first 50' of dirt road will be surfaced with 6" of pit run and 3" of gravel. Depths are before compaction.

Existing water dips in the dirt road will be repaired. Dips will be skewed to



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drain, at least half in cut, and broad enough so a tractor-trailer does not high center. A new water dip will be built just north of the junction of the old well road and jeep trail to keep run off from the P & A well from running down ST's portion of the road.

The road will initially be flat bladed with a 15' wide running surface. Maximum disturbed width will be 30'. Maximum cut or fill is 5'. Maximum grade will be 8%. No culverts, cattle guards, or turn outs are needed now. If production results, then it will be upgraded to all weather state and BLM standards.

3. EXISTING WELLS (See Page 13)

There are two plugged and abandoned wells and one water well within a mile radius. There are no existing oil, gas, or injection wells within a mile.

4. PROPOSED PRODUCTION FACILITIES

A well head, pump, separator, and tank battery will be installed. All will be painted a flat juniper green color. Tanks will be surrounded by an impermeable dike with sufficient capacity to hold 150% of the volume of the largest tank within the dike.

5. WATER SUPPLY

ST will use Guy Tracy's permitted existing 320' deep water well just east of the fairgrounds in SESE 30-33s-24e (#09-1038, #09-1224.

6. CONSTRUCTION MATERIALS & METHODS (See Pages 14 & 15)

Dirt contractor will notify archaeologist (CASA at 970-565-9229) at least



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48 hours before construction starts. Archaeologist will fence off archaeology site and point out road detour on mesa top.

Topsoil and brush will be stripped and stockpiled west of the pad. A ditch will be cut along the west side of the pad.

If needed, the reserve pit will be lined a minimum 12 mil liner or with at least 24 tons of commercial bentonite worked into 3:1 sides. No liquid hydrocarbons will be discharged to the pit, pad, or road. Should hydrocarbons escape, they will be cleaned up and removed within 48 hours.

The pit will be fenced 48" high on 3 sides with 32" high woven wire topped with 2 smooth wire stands 4" and 16" above the woven wire. Steel posts will be set ≈ 16.5 ' apart. Corner posts will be ≥ 6 " 0. D. wood and anchored with a dead man. The 4th side will be fenced the same when drilling stops. The fence will be kept in good repair while the pit dries.

7. WASTE DISPOSAL

Once dry, contents of the reserve pit will be buried in place.

Human waste will be disposed of in chemical toilets, which will be hauled to a state approved dump station. All trash will be placed in a portable trash cage. It will be hauled to the county landfill. There will be no trash burial or burning.

8. ANCILLARY FACILITIES

There will be no air strips or camps. Camper trailers may be on location for the company man, tool pusher, and mud loggers.



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9. WELL SITE LAYOUT

See PAGES 14 and 15 for depictions of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION & REVEGETATION

Upon completion of drilling, the well site will be cleared of all debris, material, and junk not needed for production.

Reclamation will start when the reserve pit is dry. All areas not needed for production will be back filled, contoured to natural contours, and reserved topsoil spread. If the well is a producer, then enough topsoil will be saved to reclaim the rest of the pad. The topsoil pile and all reclaimed areas will be broadcast seeded between October 1 and February 28 with the following mix. Sown areas will be left rough and lightly harrowed (4" deep) after seeding.

2 lb/ac galleta grass4 lb/ac Indian ricegrass1 lb/ac four wing saltbush1/2 lb/ac scarlet globe mallow1 lb/ac sand dropseed

11. SURFACE OWNER

Well and the dirt road in SENW and NESE Section 22 is on SITLA and on lease. That portion of the dirt road in Section 23 is on SITLA and off lease for which a right of entry application has been filed. The remainder of the dirt road is on BLM for which a road right-of-way application has been filed. Utah Department of Transportation has approved driveway at U-211.



ST Oil Company Marie Ogden State #1 1910' FNL & 1850' FWL Sec. 22, T. 31 S., R. 23 E. San Juan County, Utah

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12. OTHER INFORMATION

The nearest hospital is a half hour drive away in Monticello. It is 3 blocks northwest of the intersection of US 666 and US 191. Hospital phone number is (435) 587-2116. Or dial 1-800-332-1911 from anywhere in San Juan County, Utah.

13. REPRESENTATION

Anyone having questions concerning the APD should call:

Brian Wood, Consultant Permits West, Inc. 37 Verano Loop Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

The company representative is:

Rich Ferris ST Oil Company 1801 Broadway, Suite 600 Denver, Co. 80202

(303) 296-1908

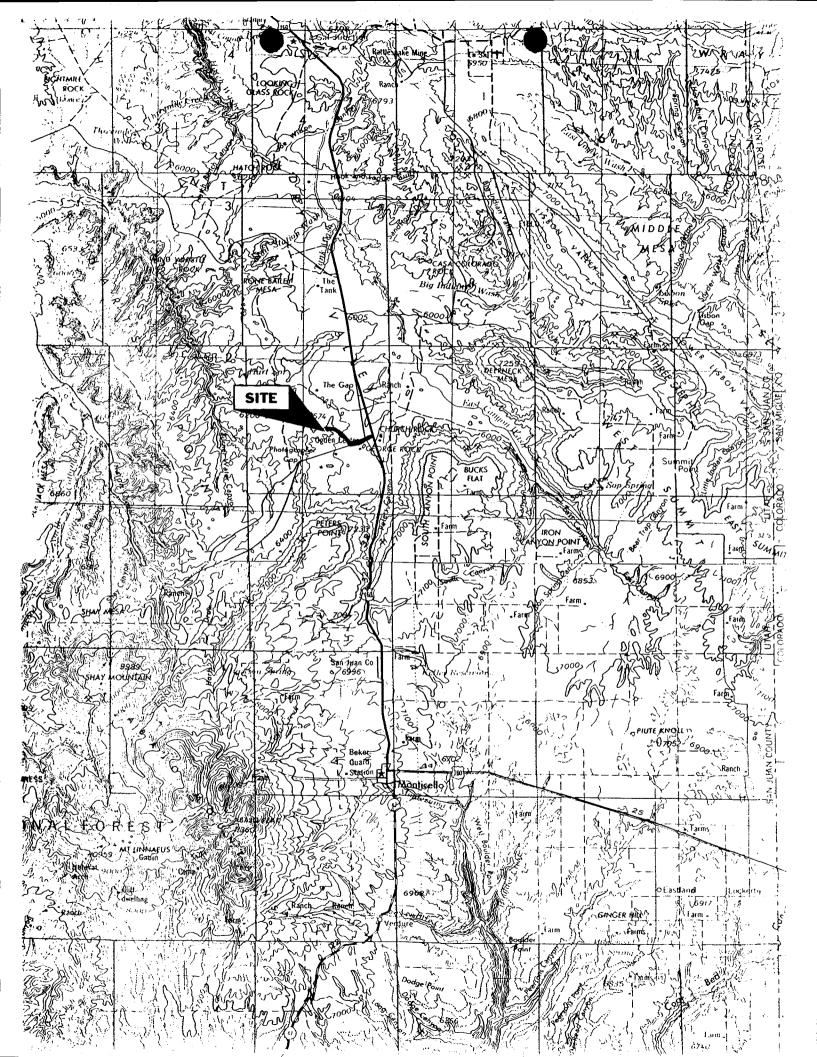
FAX: (303) 296-0329

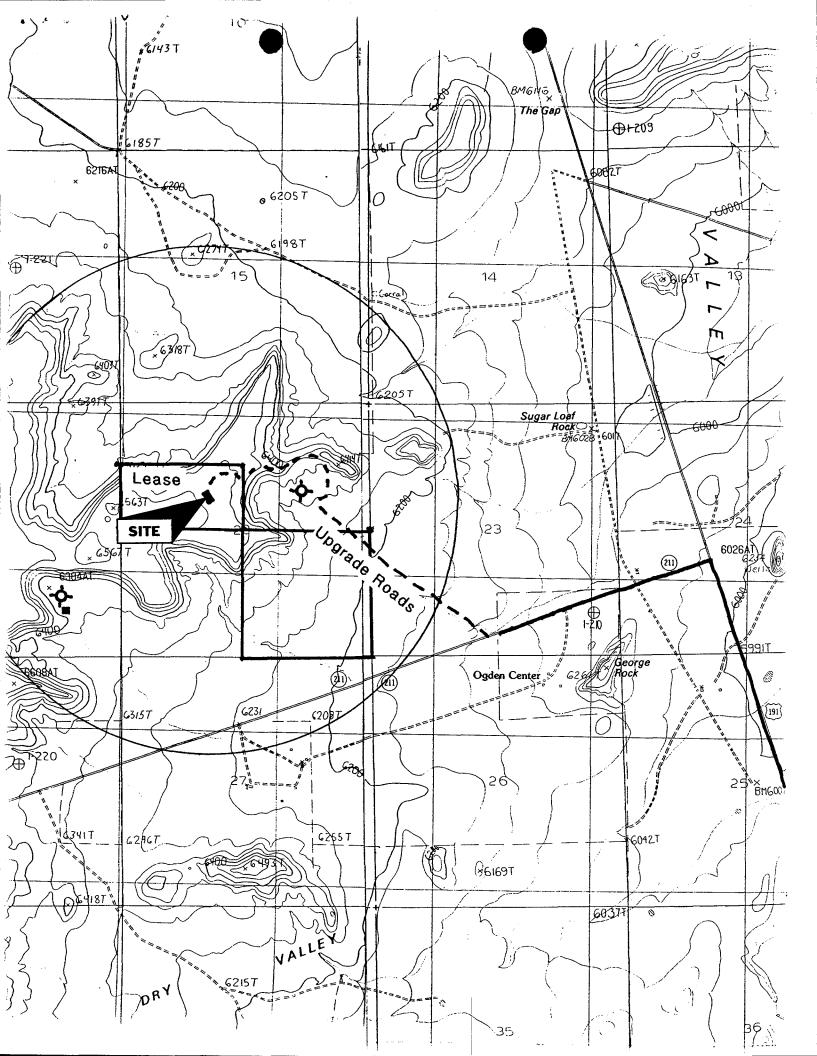
Cellular: (303) 618-2925

The well site geologist will be present from ≈2,800' to TD. He will be:

Gene Stevenson (435) 672-2277

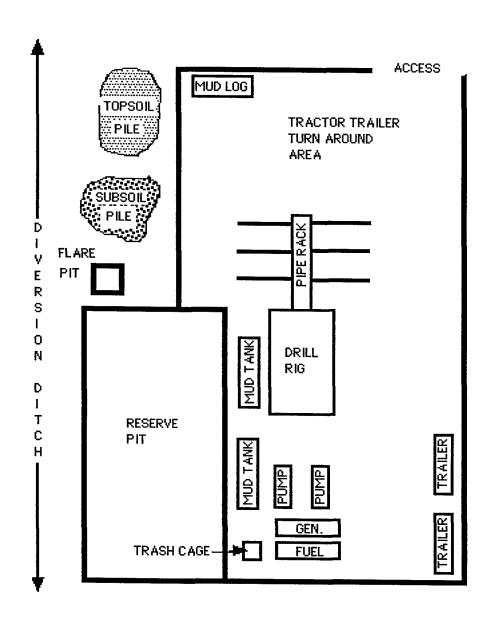


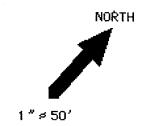




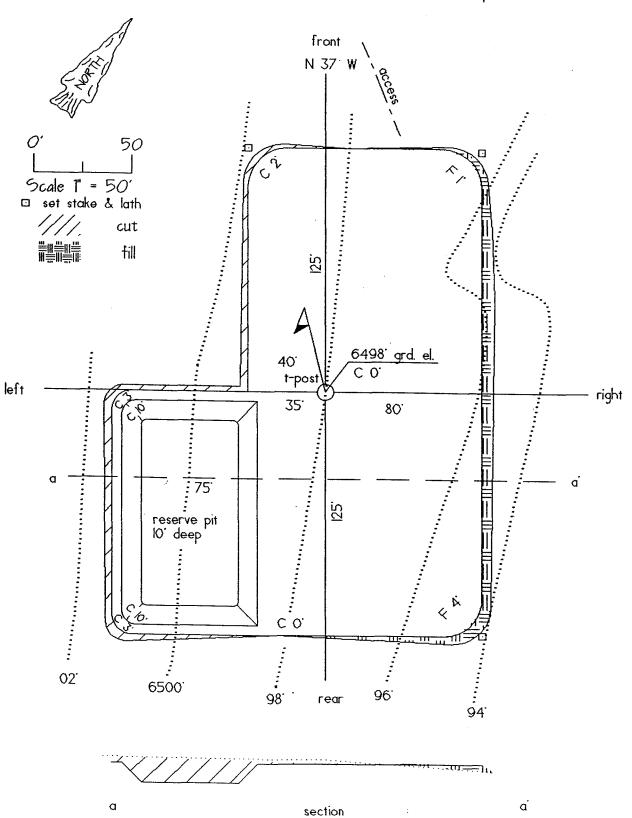
ST Oil Company Marie Ogden State #1 1910' FNL & 1850' FWL Sec. 22, T. 31 S., R. 23 E. San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE









WORKSHEET APPLICATION FOR PERMIT TO DRILL

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APD RECEIVED: 07/22/2002	API NO. ASSIGNI	ED: 43-037-318	25
WELL NAME: MARIE OGDEN STATE 1 OPERATOR: ST OIL COMPANY (N2190) CONTACT: BRIAN WOOD/AGENT	PHONE NUMBER: 3	03-296-1908	
PROPOSED LOCATION: SENW 22 310S 230E SURFACE: 1910 FNL 1850 FWL BOTTOM: 1910 FNL 1850 FWL SAN JUAN WILDCAT (1) LEASE TYPE: 3 - State LEASE NUMBER: ML-47152 OF SURFACE OWNER: 3 - State PROPOSED FORMATION: DSCR	INSPECT LOCATN Tech Review Engineering Geology Surface LATITUDE: 38.0 LONGITUDE: 109.		/ Date ////////////////////////////////////
Plat Bond: Fed[] Ind[] Sta[3] Fee[] (No. N2S450192 v.r) N Potash (Y/N) N Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. 09-1038) RDCC Review (Y/N) (Date: 08/10/2002) No Fee Surf Agreement (Y/N)	LOCATION AND SITE R649-2-3. Unit R649-3-2. Siting: 460 F R649-3-3. Drilling Uni Board Cause Eff Date: Siting: R649-3-11.	General 'rom Qtr/Qtr & 920' Exception it	
COMMENTS: Need Presite (8-7-02) 10/24 Ed Benner Said St. Dil Co hes 10x70 Co STIPULATIONS: 1-Spacing Stip 2-STATEMENT OF R	f the lesse		

T	31S R23E	15	14.
	21 REMINGTON 21-1H	SIXSHOOTER UNIT Maine Odiscost Major Martin FED 1 22	23
3	28	27	CHURCH ROCK UNIT 1 26
SEC. 22 T319	Well Status Gas Injection Gas Storage NED Location Abandoned Location Plugged Producing Gas Producing Oil ED Shut-In Gas Shut-In Oil Temporarily Abandoned TED Water Injection Water Supply	Unit Status EXPLORATORY GAS STORAGE NF PP OIL NF SECONDARY PENDING PI OIL PP GAS	h Oil Gas and Mining N W E Prepared By: D. Mason Date: 25-July-2002



Fax Transmittal Cover

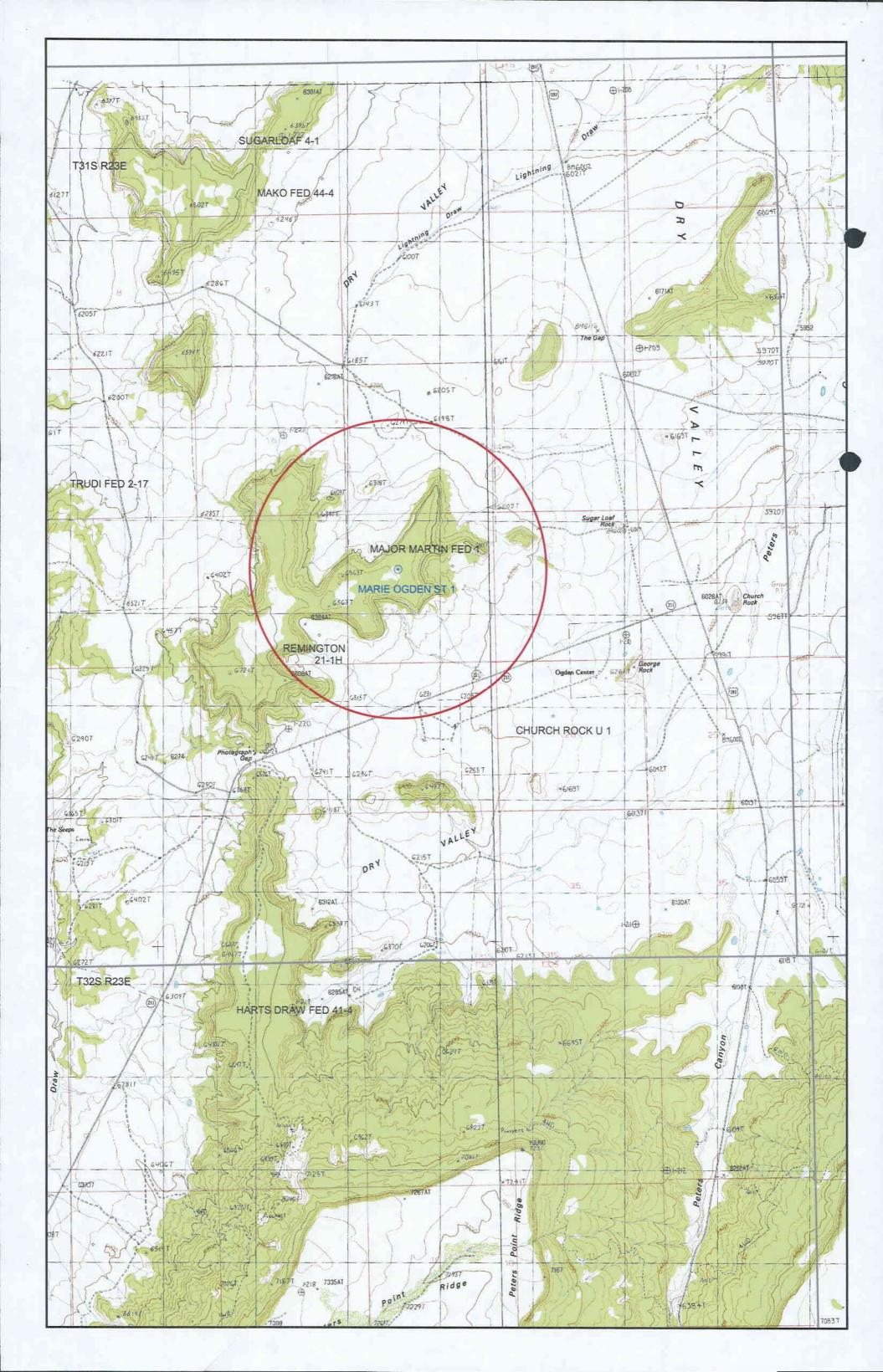
From:	Kitty Throat
Permit	s West, Inc.

phone:	(505)-466-8120
fax:	(505)-466-9682

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DIV OF OIL, GAS & MINING

STATE OF UTAH FORM 3 DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING AMENDED REPORT (highlight changes) 001 5. LEASE DESIGNATION AND SERIAL NUMBER: APPLICATION FOR PERMIT TO DRILL ML-47152 6, IF INDIAN, ALLOTTEE OR TRIBE NAME: DRILL 🖂 REENTER | DEEPEN | 1A. TYPE OF WORK: N/A 7. UNIT or CA AGREEMENT NAME: OIL GAS [OTHER SINGLE ZONE MULTIPLE ZONE B. TYPE OF WELL: N/A 2. NAME OF OPERATOR: 8. WELL NAME and NUMBER: ST OIL COMPANY MARIE OGDEN STATE #1 1801 BROADWAY, SUITE 600 3. ADDRESS OF OPERATOR: 9 FIELD AND POOL, OR WILDCAT: PHONE NUMBER: DENVER STATE CO ZIP 80202 303 296-1908 **WILDCAT** 4. LOCATION OF WELL (FOOTAGES) 10. QTR/QTR, SECTION, TOWNSHIP, RANGE, 1910 FNL & 1850 FWL AT SURFACE: SENW 22 31s 23e SL SAME AT PROPOSED PRODUCING ZONE: 13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 11, COUNTY: 12. STATE: UTAH 15 AIR MILES NNW OF MONTICELLO SAN JUAN 14. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 15. NUMBER OF ACRES IN LEASE: 16. NUMBER OF ACRES ASSIGNED TO THIS WELL: 1.440 40 17. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 18 PROPOSED DEPTH: 19. BOND DESCRIPTION: \$20,000 N/A' 5.428 20. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 21. APPROXIMATE DATE WORK WILL START: 22 ESTIMATED DURATION: 6,498' GR 2 WEEKS AUGUST 15, 2002 PROPOSED CASING AND CEMENTING PROGRAM 23. 710 SIZE OF HOLE CASING SIZE, GRADE, AND WEIGHT PER FOOT SETTING DEPTH CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT 2-1/4 9-5/8 J/K-55 36# 1.350' LITE & STAND & 750# SX VARY UIG **VARY** 15.6 1.56 1.95 7-3 124 7-7/8 K-55 15.5# 5.428' GLASS-G LITE 330200 SX Class G 270 SX 1.19 15,6 **ATTACHMENTS** MENDED VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES: WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER COMPLETE DRILLING PLAN EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER CONSULTANT **BRIAN WOOD** (505) 466-8120 NAME (PLEASE PRINT) 7-20-02 (This space for State use only) API NUMBER ASSIGNED: 43-037-31825 (5/2000)



STATE ACTIONS

State Clearinghouse Coordinator 116 State Capitol, SLC, UT 84114 538-1535

1. Administering State Agency Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	2. State Application Identifier Number: (assigned by State Clearinghouse)						
	3. Approximate date project will start: Upon Approval or August 15, 2002						
4. Areawide clearinghouse(s) receiving state action: (to be sent	out by agency in block 1)						
Southeastern Utah Association of Governments							
5. Type of action: //Lease /X/Permit //License //La	nd Acquisition						
//Land Sale //Land Exchange //Other							
6. Title of proposed action:							
Application for Permit to Drill							
7. Description:							
ST Oil Company proposes to drill the Marie Ogden State #1 well (wildcat) on a State lease ML-47152, San Juan County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.							
8. Land affected (site location map required) (indicate county)							
SE/4, NW/4, Section 22, Township 31 South, Range 23 East, Sa	in Juan County, Utah						
9. Has the local government(s) been contacted? No							
10. Possible significant impacts likely to occur:							
Degree of impact is based on the discovery of oil or gas in con	nmercial quantities.						
11. Name and phone of district representative from your agency near project site, if applicable:							
12. For further information, contact: Diana Mason Phone: (801) 538-5312	13. Signature and title of authorized officer (For) John R. Baza, Associate Director Date: July 25, 2002						



WRPRINT Water Right Information Listing

Version: 2002.07.10.00 Rundate: 07/31/2002 12:38 PM

Water Right 05-2039

View Documents	View Use Data	Printable (PDF) Version	
WRNUM: 05-2039		Water Rights makes NO cla	ims as to the accuracy of this data.) RUN DATE: 07
OWNERSHIP******		******	*************
NAME: Washburn Enter			OWNER MISC: c/o Clem Washburn
ADDR: P.O. Box 476 CITY: Monticello LAND OWNED BY APPLIC		STATE: UT ZIP: 84535	INTEREST: 100%
DATES, ETC.*****	*****	*****	***********
APPR/REJ: 04/20/198 CERT/WUC: / /	B4 PROOF DUE: 02/2 LAP, ETC: /	8/1988 EXTENSION: / / PROV LETR: / /	83 ADV DESIG: 09/09/1983 BY: [MP] PAF 84 PROTESTED: [] PROOF/PUB: / BY: ELEC/PROOF: [Election] ELEC/PROOF: 01/13/1988 PRC RENOVATE: / / .fo: WUC Map: Date Verified: 03/15/1988
		*******	***********
FLOW: 0.015 cfs COUNTY: San Juan POINT OF DIVERSION	COMMON DESCRIPTION UNDERGROUND:	SOURCE: Unde ON: 2 Miles W of Church Ro	rground Water Well
PLACE OF USE OF WATE	ER RIGHT******	******	*************

Sec 15 T 31S R 23E SLBM	NORTH-WEST4 NW NE SW SE * : : X*	NORTH-EAST4 NW NE SW SE * : : *	SOUTH-WEST4 NW NE SW SE * : : *	SOUTH-EAST4 NW NE SW SE * : : : *	
USES OF WATER RIGHT******	******	******	*****	******	******
CLAIMS USED FOR PURPOSE DES Referenced To:	CRIBED: 2039 Claims Groups:		Type of Re	ference Claims:	Purpose:
###STOCKWATERING: 150 Cat	tle or Equivalent		Diversion	Limit: a	acft. PERIOD OF
	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIII E N D	OF DATAII	IIIIIIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy



WRPRINT Water Right Information Listing

Version: 2002.07.10.00

Rundate: 07/31/2002 12:40 PM

View Documents | View Use Data | Printable (RDF) Version

Water Right 05-2601

VIGW DOCUMENTO THE SECOND THE SEC
(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 07 WRNUM: 05-2601 APPLICATION/CLAIM NO.: A70199 CERT. NO.:
OWNERSHIP************************************
NAME: Bureau of Land Management OWNER MISC:
ADDR: P.O. Box 7 CITY: Monticello STATE: UT ZIP: 84535 INTEREST: 100% LAND OWNED BY APPLICANT? Yes
DATES, ETC.************************************
FILING: 07/01/1996 RECVD BY: [MP] PRIORITY: 07/09/1996 ADV DESIG: 07/11/1996 BY: [MP] PAF PUB BEGAN: 08/01/1996 PUB ENDED: 08/08/1996 PROTST END:08/28/1996 PROTESTED: [No] PROOF/PUB: / BY: APPR/REJ: 10/25/1996 PROOF DUE: 02/28/2002 EXTENSION: / ELEC/PROOF: [Election] ELEC/PROOF: 01/24/2002 PROCENT/WUC: / LAP, ETC: / PROV LETR: / RENOVATE: 01/31/2001 Date Verified: 07/11/1996
LOCATION OF WATER RIGHT************************************
FLOW: 1.4 acre-feet COUNTY: San Juan COMMON DESCRIPTION: 1.5 mi. N. of Photograph Gap POINT OF DIVERSION UNDERGROUND: (1) N 950 ft W 1150 ft from SE cor, Sec 21, T 31S, R 23E, SLBM DIAM: 8 ins. DEPTH: 660 to ft. YEAR DRILLE Comment:
PLACE OF USE OF WATER RIGHT************************************

Sec 21 T 31S R 23E SLBM	NORTH-WEST4 NW NE SW SE * : : *	NORTH-EAST4 NW NE SW SE * : : *	SOUTH-WEST4 NW NE SW SE * : : *	SOUTH-EAST4 NW NE SW SE * : : X*	
USES OF WATER RIGHT********	*****	*******	******	*******	******
CLAIMS USED FOR PURPOSE DESCR Referenced To:			Type of Refe	rence Claims:	Purpose:
###STOCKWATERING: 100 Cattl Church Rock Allotment	le or Equivalent		Diversion L	imit: a	acft. PERIOD OF
OTHER COMMENTS*********	****	******	*****	*****	*****
Consumptive use for each Well drilled under provi			lculated at 0.01 A	F.	
	XXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXX	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	XXXXXXXXXXXXX
		C M to coccocio	O F D A I A COCO		

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ON-SITE PREDRILL EVALUATION Division of Oil, Gas and Mining

OPERATOR: ST Oil Company (N2190)

WELL NAME & NUMBER: ____ Marie Ogden State 1____

API NUMBER: 43-037-31825

LEASE: ML-47152 FIELD/UNIT: WILDCAT (001)

LOCATION: 1/4,1/4 SENW Sec: 22 TWP: 31S RNG: 23E 1910 FNL 1850 FWL

LEGAL WELL SITING: 460' FROM 1/4,1/4 LINE; 920' FROM ANOTHER WELL.

GPS COORD (UTM): $X = \overline{6415}\underline{69}$ E; Y = 4215500 N SURFACE OWNER: SITLA

PARTICIPANTS

Lisha Cordova (DOGM), Dan Jarvis (DOGM), Brian Wood (Permits West), Chris Colt (DWR), Ed Bonner was invited but did not attend (SITLA), Mike Narramore (Reams Const.), Jerry Holliday (Holiday Const.), Blain Nebeker (Crowley Const.), and Norman Utley (Utley Const.)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

The location is approximately 35 miles south of Moab off US 191 & JCT 211 and will be located in canyon land topography on top of a rocky mesa overlooking flatlands. The Blue Mountains can be seen in the distance southwest of location. A rough dirt road on a slight grade leads about 1/3 of the distance to location, however it will need to be upgraded and new road construction will be necessary to complete the access road. The road will begin with a gradual incline leading to a steep section of slick rock where a switchback will be required to lesson the grade. Rock blasting will be required at midpoint and the upper portion of the road will need to be graded to maintain a grade less than 10%. The well site and reserve pit will be on a relatively flat surface slightly dipping toward the south. An archeological site to the northeast of location has been marked off with white and blue flags.

SURFACE USE PLAN

CURRENT SURFACE USE: <u>Substantial wildlife habitat including deer, rabbits, coyote, rodents, birds, snakes, etc.</u>

PROPOSED SURFACE DISTURBANCE: <u>Pad 250X115</u> with an attached 125X75 reserve pit.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 2 plugged and abandoned wells, and 2 water wells.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Well head, pump, separator and tank battery will be installed. An impermeable dike will surround tanks with sufficient capacity to hold 150% of the volume of the largest tank within the dike. No pipelines indicated in permit.

SOURCE OF CONSTRUCTION MATERIAL: From location, dirt contractor, and local source(s).

ANCILLARY FACILITIES: None

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into

centralized dumpsters which will be emptied into an approved landfill. No crude oil is expected. Drilling fluid, completion/frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Used oil from drilling operations and support will be hauled to a used oil recycling facility and disposed of. Produced water will be disposed of at an approved facility.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Pinion, Sage Brush, Mormon Tea, Indian Rice Grass, Cactus, and native grasses.

SOIL TYPE AND CHARACTERISTICS: Reddish brown loose sandy dirt with clay.

SURFACE FORMATION & CHARACTERISTICS: <u>Entrada/Carmel sandstone and</u> quaternary alluvium.

EROSION/SEDIMENTATION/STABILITY: Stable

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Mostly flat surface with a slight grade on south end.

Depth of soil and hard rock underlying pit is unknown at present. Will want to make sure liner is installed properly to avoid liner puncture(s). If pit is built in rock, geotextile or some other approved material will be required to underlay the liner.

LINER REQUIREMENTS (Site Ranking Form attached): 12 mils or higher.

SURFACE RESTORATION/RECLAMATION PLAN

SURFACE AGREEMENT: As per agreement with SITLA (surface owner).

CULTURAL RESOURCES/ARCHAEOLOGY: None at location. Surveyed by Casa Arch. Services Associates. An arch site was located northeast of location. It has been marked with white and blue flags. Operator is aware of site and will make sure that all company representatives and contractors are made aware of it and do not disturb. The access road has been routed to the south to avoid disturbance of the site.

OTHER OBSERVATIONS/COMMENTS

Chris Colt (DWR) requested a wildlife drilling window between August 15-February 1. ST Oil Companys drilling plans correspond with DWRs' request and operator representative stated they will have no problem granting request. An onsite with the BLM for Right of Way (ROW) approval had already been performed, and it was stated that a ROW had been issued by the BLM. In addition, a one foot berm will surround the entire location, as requested by the Division.

ATTACHMENTS

Photos of this location were taken at time of onsite however the oil & gas digital camera, including photos of this site, was reported stolen from the Division on August 9, 2002. Photos will be re-taken at time of pit liner inspection and will be placed in file.

<u>Lisha Cordova / Dan Jarvis</u> DOGM REPRESENTATIVE(S)

August 7, 2002 DATE/TIME

Evaluation Ranking Criteria and Ranking Score For Reserve and Onsite Pit Liner Requirements

101 hobolito dila		110442101101101
Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200 75 to 100	5 10	
25 to 75	15	
<25 or recharge area	20	10
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300 100 to 200	10 15	
< 100	20	0
Distance to Nearest Municipal		
Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320 <500	10 20	0
1300	20	0
Distance to Other Wells (feet)	•	
>1320 300 to 1320	0 10	
<300	20	0
Water Call Town		
Native Soil Type Low permeability	0	
Mod. permeability	10	
High permeability	20	20
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000 TDS >10000 or Oil Base Mud Fluid	10 15	
containing significant levels of	13	
hazardous constituents	20	5
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	0
Annual Precipitation (inches)		
<10	0	
10 to 20 >20	5 10	0
	10	U
Affected Populations <10	^	
10 to 30	0 6	
30 to 50	8	
>50	10	0
Presence of Nearby Utility		
Conduits		
Not Present	0	
Unknown Present	10 15	0
		Ŭ

35 (Level 1 Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.

Final Score

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	ST Oil Company (N2190)	
WELL NAME & NUMBER:	Marie Ogden State 1	
API NUMBER:	43-037-31825	
LEASE: ML-47152 FIEI	LD/UNIT: WILDCAT (001)	LOCATION: 1/4,1/4 <u>SENW</u>
Sec:22 TWP: 31S RNG: 23E 19	910 FNL 1850 FWL	,

Geology/Ground Water:

The only locally recognized aquifers, which are likely to be encountered in this well, are the P and N aquifers. The well will spud into Entrada Sandstone. Small seeps and, in the subsurface, perched aquifers may be encountered in the Entrada Sandstone and the porous and permeable strata of the Glen Canyon Group. The nearest local seeps appear to issue from the Navajo Sandstone of the aforementioned Group. These would be the most likely host rocks of a water resource from the N aquifer. Another possible source of water encountered during drilling may be several permeable strata in the Cutler Group and which are collectively named the P aquifer. There are two water supply wells identified within a mile of the location and the depths of these indicate that they are probably producing from the N aquifer. It is proposed that surface casing be set in the top of the Chinle Formation and this should suffice to protect the shallow and higher quality water resource found in the N aquifer. As a consequence of the depth at which they are found, the waters of the P aquifer in this area are most likely moderately saline and therefore not of high quality. The proposed casing and cement program should suffice to protect the ground water resource.

Reviewer: Christopher J. Kierst Date: August 20, 2002

Surface:

Operator representatives and DWR were present at onsite conducted on August 7, 2002. SITLA was invited but did not attend. DWR requested a wildlife drilling window from August 15 thru February 1, which operator agreed to. An onsite with the BLM had been performed prior to the Division onsite for BLM Right of Way (ROW) approval and operator was granted ROW approval. An arch site which has been marked off with white and blue flags offsets the well location to the northeast. Operator will make sure that all company representatives and contractors are made aware of the site and do not disturb. All unused graded material from site will be pushed toward the northern end of location, away from arch site, to keep the scenic mesa front undisturbed. The reserve pit liner will need to be properly installed and maintained in the reserve pit with a synthetic liner with a minimum thickness of 12 mils, and if the pit is built in rock, geotextile or some other Division approved material will be required to underlay the liner. The Division would like to be notified prior to lining the reserve pit to allow for Division inspection. Operator will build a one foot berm around the entire location, as requested by the Division.

Reviewer: Lisha Cordova / Dan Jarvis Date: August 12, 2002

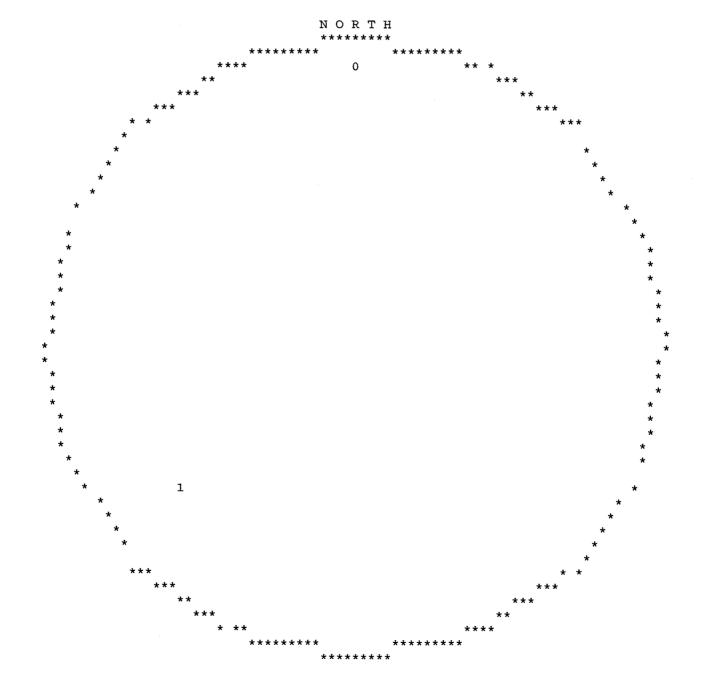
Conditions of Approval/Application for Permit to Drill:

- 1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
- 2. If the reserve pit is built in rock, geotextile or some other Division approved material will be required to underlay the liner.
- 3. The Division shall be notified prior to lining the reserve pit to allow for Division inspection.
- 4. A one-foot berm will be built around the entire location.

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED WED, JUL
PLOT SHOWS LOCATION OF 2 POINTS OF DI

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET S 1910 FEET, E 1850 FEET OF THE NW CORNER, SECTION 22 TOWNSHIP 31S RANGE 23E SL BASE

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 F



	UTAH DIV	VISION OF	WATER	RIGHTS	_
NWPLAT	POINT	OF DIVER	SION LO	CATION	PR

MAP CHAI	WATER R RIGHT	QUANTITY CFS AND/OR	AC-FT	SOURCE DES	SCRIPTION (or WELL YEAR		O NOR	POI TH
0	05 2039		.00	9	510	1986	Y	N	300
		WATER USE(S): STOCKWA Washburn Enterprises	ALEKTING.		P.O. Box	476			
1	05 2601	.0000 WATER USE(S): STOCKWA	1.40	8	660		<u>N_</u>	N	950
		Bureau of Land Manage			P.O. Box	7			



ORIGINA

T-226(6/97) HIGHWAY RIGHT OF WAY **ENCROACHMENT Price District**

Date:

1329-44 07/01/2002

Work Order No:

Application of: PERMITS WEST, INC.

By:

BRIAN WOOD

Phone:

(505) 466-8120

Address:

37 VERANO LOOP SANTA FE, NM 87508

Fax:

is hereby granted subject to: UDOT's Regulations For the Accommodation of Utilities on Federal Aid and Non Federal-Aid Highway Right of Way, Regulations for the Control and Protection of State Highway Rights of Way, Standard Specifications for Road and Bridge Construction, Specifications for Excavation of State Highway, State Occupational Safety and Health Laws, Manual on Uniform Traffic Control Devices, Instructions to Flaggers, the approved plans, and any special limitations set forth herein, permission for the purpose of UPGRADE (GRAVEL) EXISTING DRIVEWAY FOR ACCESS TO PROPOSED OIL WELL ON STATE LAND, within the right of way limits of Highway No. 211 Milepost No. 18.5, in SAN JUAN County, in the following locations: 11 MILES NORTH-NORTHWEST OF MONTICELLO. SR-211, MILEMARKER 18.5

Receipt of \$20 permit fee is hereby acknowledged. The work permitted herewith shall commence 08/01/2002 and shall be diligently prosecuted to completion. The work shall be completed and all disturbed surfaces or objects restored on or before 07/31/2003. In the event work is commenced under this permit and the permittee fails or refuses to complete the work, the Utah Department of Transporation may, at its election, fill in or otherwise correct any existing deficiencies at the expense of and subject to immediate payment by the permittee.

Permittee shall execute a bond in the minimum amount of , as determined by the Regional Director/District Engineering, to insure faithful performance of the permittee's obligation. The bond shall remain in force for three years after completion of work.

Before work permitted herewith is commenced, the permittee shall notify VICTOR SCHAFER 4355872620.

Commencement of said work is understood to indicate that the permittee will comply with all instructions and regulations of the Utah Department of Tranportation (as listed) with respect to performance of said work, and that she/he will properly control and warn the public of said work to prevent accident and shall indemnify and hold harmless the Utah Department of Transportation from all damages arising out of any and all operations performed under this Permit.

Permittee shall not perform any work on State Highway right of way beyond those areas of operation stipulated on this permit.

If permittee fails to comply with Utah Department of Transportation regulations, specifications, or instructions pertinent to this permit, the Region Director/District Engineer or his duly authorized representative, may by verbal order, suspend the work until the violation is corrected. If permittee fails or refuses to comply promptly, the Region Director/District Engineer or his authorized representative may issue a written order stopping all or any part of the work. When satisfactory corrective action is taken, an order permitting resumption of work may be issued.

Special Limitations:

- -This agreement and/or permit is UDOT approval only. You are responsible to obtain clearances from railroads, private property owners and local jurisdictions that you are working within.
- -Licensee must sign work in accordance with THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, Section 6, and all signs must be equipped with 3 orange flags. Flaggers required if moving traffic out of traffic lane.
- -Orange shirts or vests required of all workers within the Right of Way
- -Licensee must check for other utilities buried in this area prior to excavation (Blue Stakes does not locate signal wiring).
- -Part time inspector is required at permittee's expense, with 48 hours notice. By accepting this permit, I agree to pay for inspectors fee.
- -Contractor responsible for repairing and/or restoring any portion of the roadway damaged during construction.

MUST HAVE STATE LANDS APPROVAL. NO MORE THAN 2% SLOPE FROM EDGE OF PAVEMENT FOR 50 FT.

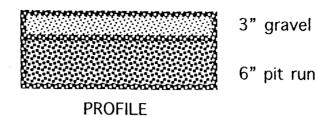
BRIAN WOOD, See Application

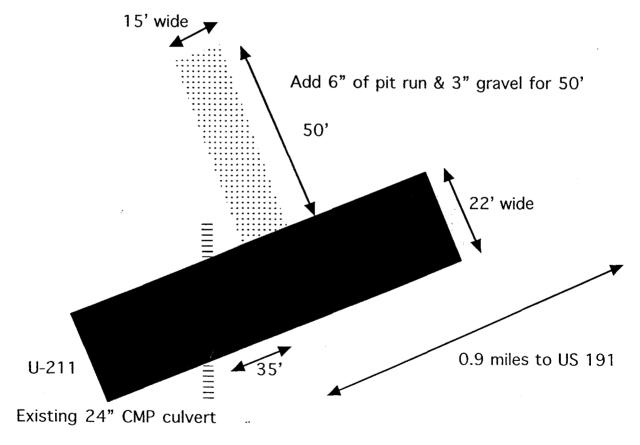
Approved By:

(Begion Director/District Engineer)

(Signature of Permitee)

Maintenance Station No. 4423 VICTOR SCHAFER (435)587-2620







CONFIDENTIAL - TIGHT HOLE

Surface Use Plan

1. <u>DIRECTIONS</u> (See Pages 12 & 13)

From the Monticello, go North 14 miles on US 191 to U-211
Then turn left and go West 0.95 mi. on paved U-211 to a faint dirt road
Then turn right and go NW 0.85 miles on a partially reclaimed dirt road
Then turn right and go NE 250' on a jeep trail
Then turn left and go N 500' on a less obvious jeep trail
Then switch back 75' NE away from the jeep trail
Then switch back 75' NW onto a rock bench
Then follow an old seismic trail W 1,675'
Then detour S away from the trail for 350'
The return to the seismic trail and continue W 300'
Then turn left and go SW cross country 125' to the proposed well

Roads will be maintained to a standard at least equal to their present condition.

2. ROAD WORK

The dirt contractor will call the archaeologist (CASA @ 970-565-9229) at least 48 hours before starting construction. The archaeologist will fence an archaeology site on the north side of the pad on top of the mesa before starting construction. The archaeologist will monitor construction.

The junction of the dirt road and U-211 will be upgraded. The first 50' of dirt road will be surfaced with 6" of pit run and 3" of gravel. Depths are before compaction.

Existing water dips in the dirt road will be repaired. Dips will be skewed to



CONFIDENTIAL - TIGHT HOLE

drain, at least half in cut, and broad enough so a tractor-trailer does not high center. A new water dip will be built just north of the junction of the old well road and jeep trail to keep run off from the P & A well from running down ST's portion of the road.

The road will initially be flat bladed with a 15' wide running surface. Maximum disturbed width will be 30'. Maximum cut or fill is 5'. Maximum grade will be 8%. No culverts, cattle guards, or turn outs are needed now. If production results, then it will be upgraded to all weather state and BLM standards.

3. EXISTING WELLS (See Page 13)

There are two plugged and abandoned wells and one water well within a mile radius. There are no existing oil, gas, or injection wells within a mile.

4. PROPOSED PRODUCTION FACILITIES

A well head, pump, separator, and tank battery will be installed. All will be painted a flat juniper green color. Tanks will be surrounded by an impermeable dike with sufficient capacity to hold 150% of the volume of the largest tank within the dike.

5. WATER SUPPLY

ST will use Guy Tracy's permitted existing 320' deep water well just east of the fairgrounds in SESE 30-33s-24e (#09-1038, #09-1224.

6. CONSTRUCTION MATERIALS & METHODS (See Pages 14 & 15)

Dirt contractor will notify archaeologist (CASA at 970-565-9229) at least



CONFIDENTIAL - TIGHT HOLE

48 hours before construction starts. Archaeologist will fence off archaeology site and point out road detour on mesa top.

Topsoil and brush will be stripped and stockpiled west of the pad. A ditch will be cut along the west side of the pad.

If needed, the reserve pit will be lined a minimum 12 mil liner or with at least 24 tons of commercial bentonite worked into 3:1 sides. No liquid hydrocarbons will be discharged to the pit, pad, or road. Should hydrocarbons escape, they will be cleaned up and removed within 48 hours.

The pit will be fenced 48" high on 3 sides with 32" high woven wire topped with 2 smooth wire stands 4" and 16" above the woven wire. Steel posts will be set ≈ 16.5 ' apart. Corner posts will be ≥ 6 " O. D. wood and anchored with a dead man. The 4th side will be fenced the same when drilling stops. The fence will be kept in good repair while the pit dries.

7. WASTE DISPOSAL

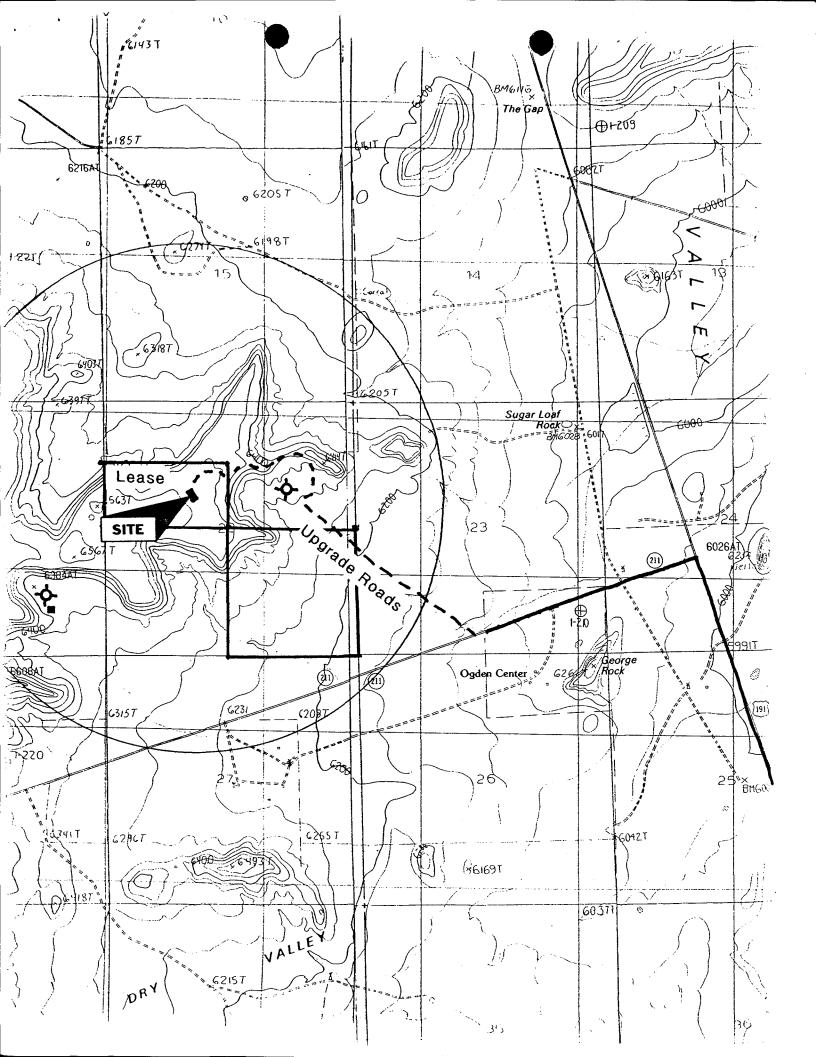
Once dry, contents of the reserve pit will be buried in place.

Human waste will be disposed of in chemical toilets, which will be hauled to a state approved dump station. All trash will be placed in a portable trash cage. It will be hauled to the county landfill. There will be no trash burial or burning.

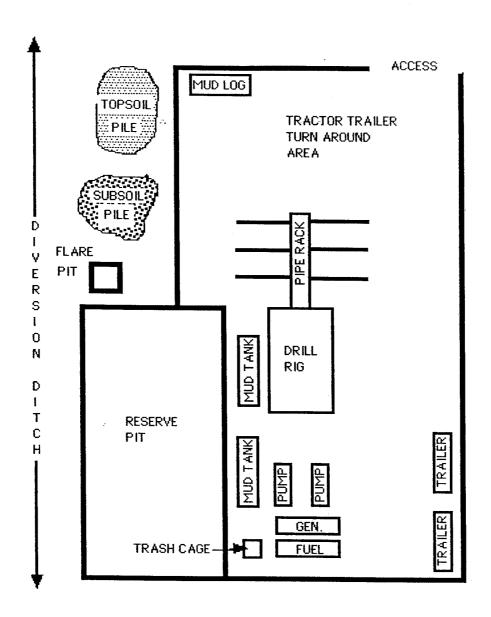
8. ANCILLARY FACILITIES

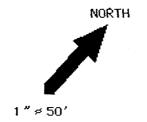
There will be no air strips or camps. Camper trailers may be on location for the company man, tool pusher, and mud loggers.





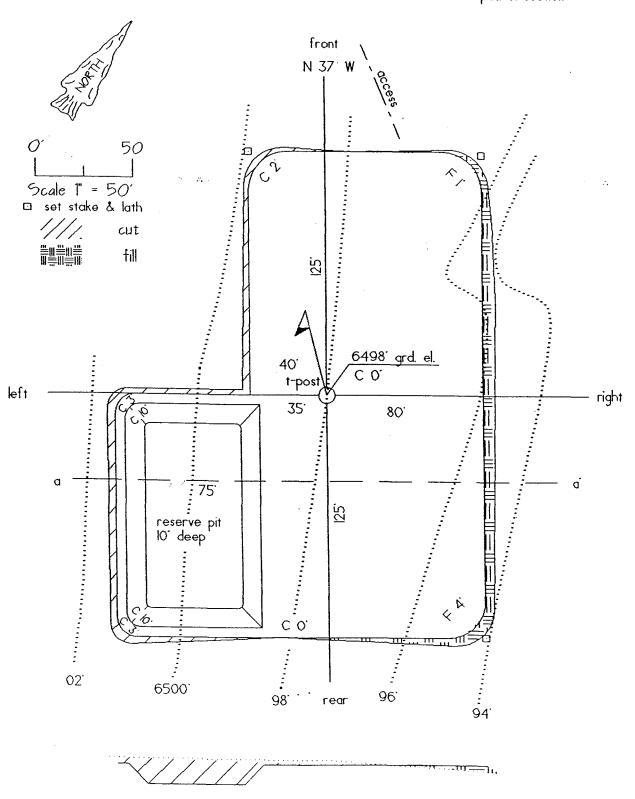
CONFIDENTIAL - TIGHT HOLE







Marie Ogden State # 1 well pad & section



section

а

Lisha Cordova - ST Oil

From:

Brian Wood brian@permitswest.com

To:

DIANA MASON < DIANAMASON @utah.gov>

Date:

08/26/2002 9:29 AM

Subject: ST Oil

CC:

LISHA CORDOVA lcordova.nrogm@state.ut.us

Note from the PostMaster:

This message was forwarded from your previous address to your current address.

Your new internet address is LISHACORDOVA@utah.gov

Please make a note of it, and inform those that send you mail.

Thank you.

This forwarding service is temporary and will stop in 20 days

ST reports they will have to resort to force pooling. Thus, it will be several months before they have all designation documents in place for your approval.

STATE OF UTAH

sacks Halliburton Light Standa ft./sack. Primary cement will	be 200 sacks 50/50	Poz Standard with 1.56 cu. ft./sack.	1/4 #/sack	.4 lb/gal & 1.95 cu Flocele + 5 #/sack AX: (505) 466-9682
Long string cement will be run fi sacks Halliburton Light Standa ft./sack. Primary cement will gilsonite + 0.6% Halad 9 + 0.29	be 200 sacks 50/50 % CFR-3 = 13 lb./gal. &	Poz Standard with 1.56 cu. ft./sack.	1/4 #/sack	.4 lb/gal & 1.95 cu Flocele + 5 #/sack
sacks Halliburton Light Standa ft./sack. Primary cement will	be 200 sacks 50/50	Poz Standard with	1/4 #/sack	.4 lb/gal & 1.95 cu Flocele + 5 #/sack
sacks Halliburton Light Standa ft./sack. Primary cement will	be 200 sacks 50/50	Poz Standard with	1/4 #/sack	.4 lb/gal & 1.95 cu Flocele + 5 #/sack
sacks Halliburton Light Standa ft./sack. Primary cement will	be 200 sacks 50/50	Poz Standard with	1/4 #/sack	.4 lb/gal & 1.95 cu Flocele + 5 #/sack
	rd with E #/oool/ all	.اــــا / 1 / منداد		4 lb /a - 1 0 1 0 F
cubic feet) Halliburton Class G				
Surface casing lead cement will + 2% CaCl ₂ + 1/4 #/sack Flo	be 300 sacks (630 cub cele = 12.3 lb/gal & 2.	ic feet) Halliburtor 10 cu. ft./sack. Sh	n Light Standar oe cement will	d with 2% bentonite be 200 sacks (238
12. DESCRIBE PROPOSED OR COMPLETED C	PERATIONS. Clearly show all pertinent	details including dates, depths,	volumes, etc.	
CONV	ERT WELL TYPE	RECOMPLETE - DIFFERENT FORMA		
Date of work completion:		PRODUCTION (START/RESUME) RECLAMATION OF WELL SITE	WATER S	SHUT-OFF CEMENT
		PLUG AND ABANDON PLUG BACK	VENT OF	DISPOSAL
	=	OPERATOR CHANGE	TUBING	
1 2		FRACTURE TREAT NEW CONSTRUCTION	=	CK TO REPAIR WELL ARILY ABANDON
NOTICE OF INTENT	ZE [DEEPEN	REPERF	ORATE CURRENT FORMATION
11. CHECK APPROPRIAT	E BOXES TO INDICATE NA	TURE OF NOTICE, RI	EPORT, OR OTH	IER DATA
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN	E SENW 22 31s 23e	SL	STATE:	UTAH
FOOTAGES AT SURFACE:	910 FNL & 1850 FW		COUNTY:	SAN JUAN
1801 BROADWAY, #600 DEN	VER STATE CO ZIP 802	02 303 296-1	908	WILDCAT
ST ONE COMPANY 3. ADDRESS OF OPERATOR:		PHONE NUMBER:	10. FIELD AND P	43-037-31825
OIL WELL LEG	AS WELL OTHER			RIE OGDEN STATE 1
1 TYPE OF WELL	PLICATION FOR PERMIT TO DRILL form for su	m-hole depth, reenter plugged wells, uch proposals.		N/A
	ES AND REPORTS ON	WELLS		N/A
SUNDRY NOTIC			6 IFINDIAN ALL	ML-47152
	I OF OIL, GAS AND MINING			NATION AND SERIAL NUMBER:

Amended By Sundry Rec'd 10/4/2007 DRD (See Instructions on Reverse Side)

SEP 1 0 2002

DIVISION OF OIL, GAS AND MINING

(5/2000)

		DEPARTMENT OF NATURAL RESOURCES	
0 2)	DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER:
<u> </u>	<i>-</i>		ML-47152
	SUNDRY	NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	,		N/A 7. UNIT or CA AGREEMENT NAME:
Đo	not use this form for proposals to drill ne	aw wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to terals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
	PE OF WELL		8. WELL NAME and NUMBER:
	OIL WELL	GAS WELL OTHER	MARIE OGDEN STATE 1
	ME OF OPERATOR: L COMPANY		9. API NUMBER: 43-037-31825
	DRESS OF OPERATOR: BROADWAY, #604	DENVER STATE CO ZIP 80202 PHONE NUMBER: 303 296-1908	10. FIELD AND POOL, OR WILDCAT: WILDCAT
	OCATION OF WELL DOTAGES AT SURFACE:	1910 FNL & 1850 FWL	COUNTY: SAN JUAN
Q.	FR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SENW 22 31s 23e SL	STATE: UTAH
11.	CHECK APPR	ROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTION	
	NOTICE OF INTENT	ACIDIZE DEEPEN	REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)	ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
	Approximate date work will start:	CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
		CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
		CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
	SUBSEQUENT REPORT	CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
	(Submit Original Form Only)	CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
	Date of work completion:	COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER: CEMENT
		CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	On Line
Surfa #/sad	ce casing lead ceme ck Flocele = 15.6 lb	OMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume ent will be 750 sacks (892.5 cubic feet) Halliburton /gal & 1.19 cu. ft./sack. Excess = 111% .	n Class G + 1% CaCl ₂ + 1/4
ong	string cement will b	e run from TD to 1,150' (≥200' above surface casing s	shoe). Lead cement will be 330

sacks Halliburton Light Standard with 5 #/sack gilsonite + 1/4 #/sack Flocele = 12.4 #/sack Flocele = 15.6 #/sack. Primary cement will be 270 sacks Halliburton Class G + 1% CaCl₂ + 1/4 #/sack Flocele = 15.6 lb/gal & 1.19 cu. ft./sack. Total volume = 964.8 cubic feet. Excess = 30%.

NAME (PLEASE PRINT)	BRIAN WO	OD (5	505)	466-8120	TITLE	CONSULTANT	FAX: (505) 466-9682
SIGNATURE	12-1	Dos			DATE	10-1-02	cc: Ferris

(This space for State use only)

PECEIVED

0.4 2002

FILE EDIT OIL GAS GAS PLANT OIL AND GAS REPORTS DB MAINTENANCE OPTIONS HELP DATA CONVERSION LOGS DATABASE QUERY

WELL S	EARCH	ł	<u></u>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WELL	DATA			WELL	HISTORY		WEL	L ACTIVITY	
WELL NAME	MARIE C	GDEN	STATE 1		_ API	NUMBER	4303731	1825	WELL	TYPE OW	•	WELL STATU:	€ APD -	
OPERATOR	ST OIL C	OMP	MY		- A	CCOUNT	N2190	ALT. A	DDRESS	FLAG #	– FIRS	ST PRODUCTION	1	
FIELD NAME	WILDCA	T			FIELD	NUMBER	1					LA PA DATI		_
VELL LOCATION:							CONFIDE	NTIAL FLAC	>			LEASE NUMBER	ML-47152	
SURF LOCATION			···				CONFIDE	NTIAL DATE			MINEF	RAL LEASE TYPE	3 •	
Q. S. T. R. M.	SENW	22	31.0 S	23.0 E	S	DIRECT	TONAL H	IORIZONTAL	-		SURFAC	E OWNER TYPE	3 🔻	
COUNTY	SAN JUA	λN				НО	RIZONTAI	L LATERALS	3			INDIAN TRIBE		
JTM Coordinates:						C	ORIGINAL	FIELD TYPE	W	-		C.A. NUMBER		
SURFACE - N	4215482	2.00	BHL - N				WILDCA	AT TAX FLAG	•		UNIT NAM	IE		<u>-</u>
SURFACE - E	641544.	00	BHL - E		·	:	СВ-МЕТ	HANE FLAG	;			CUMULATIVI	E PRODUCTION:	
ATITUDE	38.0779	0						ELEVATION	6498	GR		Oll	L	<u> </u>
ONGITUDE	109.386	22	<u>-</u> _				801	ND NUMBER	NZS4	50192		GAS	3	:
						i i uk		BOND TYPE	3	•		VVATER	२	
COMMENTS			· · · · · ·									<u> </u>]	
	I											-		
Create	<u>N</u> ew Re	c				Marya	To <u>H</u> is	tory T	o <u>A</u> ctivi	ty <u>P</u> rin	t Recd	Export Recd	1 1	







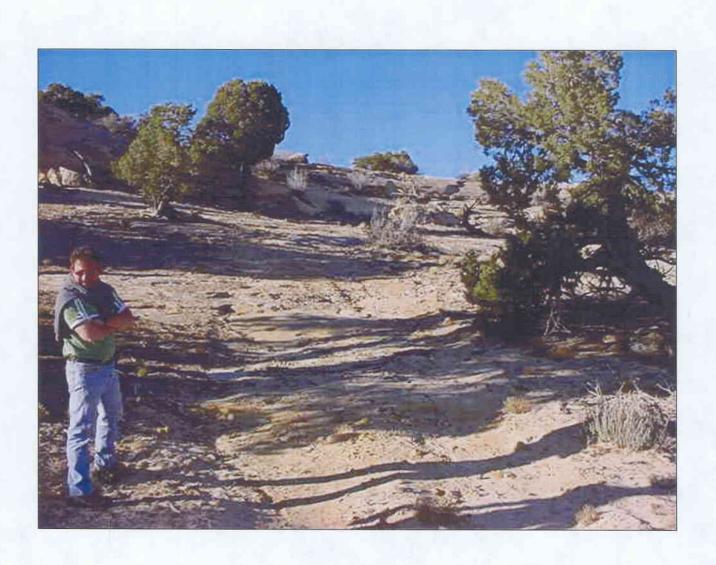


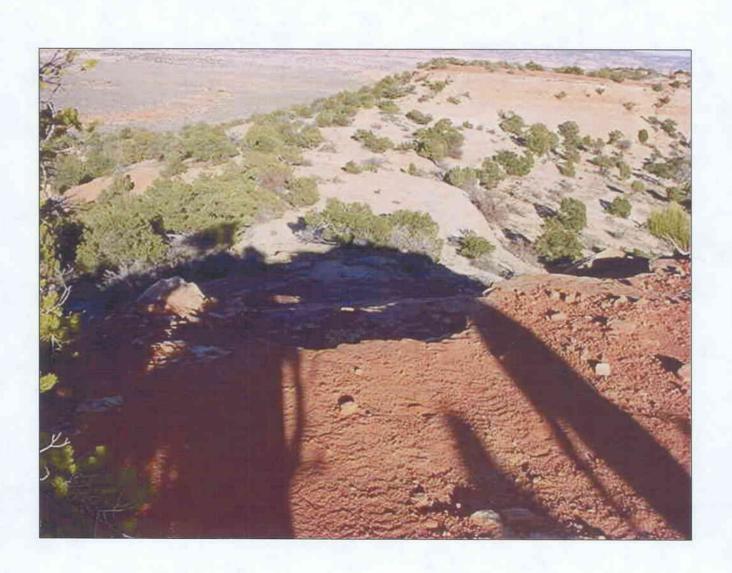


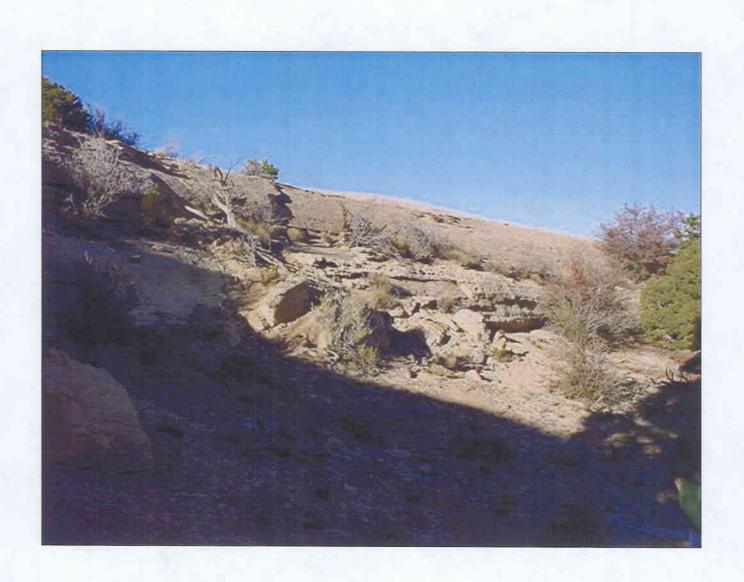




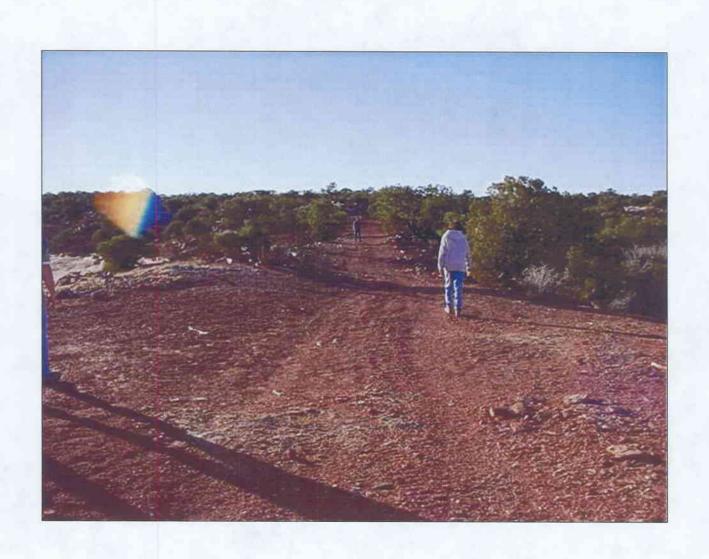












Well name:

09-02 ST Oil Marie Ogden State #

Operator:

ST Oil Company

Production String type:

Project ID:

43-037-31825

Location:

San Juan County

D	esi	ign	para	met	ers:
_					

Collapse

Mud weight:

10.000 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

H2S considered? Surface temperature:

Non-directional string.

No 75 °F

Bottom hole temperature: Temperature gradient:

151 °F 1.40 °F/100ft

Minimum section length:

375 ft

Burst:

Design factor

1.00

Cement top:

2,011 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: Calculated BHP

0 psi 0.519 psi/ft

2,820 psi

Tension: 8 Round STC:

8 Round LTC:

Buttress: Premium:

Body yield:

1.80 (J) 1.60 (J) 1.50 (J)

1.80 (J)

1.60 (B)

Tension is based on buoyed weight. Neutral point: 4,607 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	5428	5.5	15.50	K-55	ST&C	5428	5428	4.825	22677
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
1	2820	4040	1.43	2820	4810	1.71	71.4	222	3.11 J

Prepared

DKD

by: Utah Dept. of Natural Resources

Date: October 8,2002 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 5428 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Well name:

09-02 ST Oil Marie Ogden State #

Operator:

ST Oil Company

String type:

Surface

Location:

San Juan County

Project ID:

43-037-31825

Design parameters:

Collapse

Mud weight:

8.700 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse: Design factor

1.125

Environment:

H2S considered? Surface temperature: No 75 °F

Bottom hole temperature:

94 °F

Temperature gradient:

1.40 °F/100ft

Minimum section length:

375 ft

Burst:

Design factor

1.00

1.80 (J) 1.80 (J)

1.60 (J)

1.50 (J)

Cement top:

Surface

Burst

Max anticipated surface

No backup mud specified.

pressure:

0 psi

Internal gradient: Calculated BHP

0.519 psi/ft 701 psi

Tension:

8 Round STC:

8 Round LTC:

Premium:

Body yield:

Buttress:

1.60 (B)

Tension is based on buoyed weight. Neutral point: 1,176 ft

Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

5,428 ft 10.000 ppg 2,820 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure

1,350 ft 1,350 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	1350	9.625	36.00	J-55	ST&C	1350	1350	8.796	11734
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
1	610	2020	3.31	701	3520	5.02	42.3	394	9.30 J

Prepared

DKD

Utah Dept. of Natural Resources by:

Date: October 8,2002 Salt Lake City, Utah

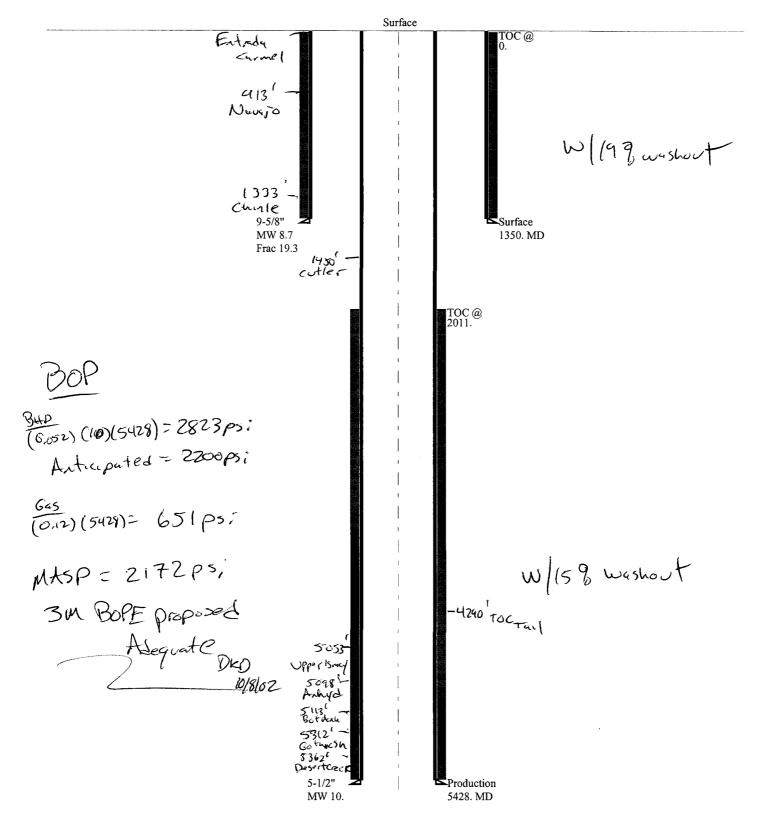
ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 1350 ft, a mud weight of 8.7 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

09-02 ST Oil Marie Ogden

Casing Schematic





Michael O. Leavitt Governor Robert L. Morgan Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

October 28, 2002

ST Oil Company 1801 Broadway, Suite 600 Denver, CO 80202

Re: Marie Ogden State #1 Well, 1910' FNL, 1850' FWL, SE NW, Sec. 22, T. 31 South,

R. 23 East, San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31825.

Sincerely,

John R. Baza

Associate Director

pb

Enclosures

cc:

San Juan County Assessor

SITLA



Operator:		ST Oil Company		_
Well Name & Number_		Marie Ogden State #1		
API Number:		43-037-31825		
Lease:		ML-47152		
Location: SF NW	Sec. 22	T 31 South	R 23 Fast	

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.
- 7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

From:

Brad Hill

To:

Dan Jarvis; Gil Hunt; Lisha Cordova

Date: Subject: 11/21/02 4:58PM Marie Ogden Well

I just talked to Rich Farris ([303]296-1908) with ST Oil. He was calling about the stipulation for a Division approved sub-liner if the pit was built in rock. He said the pit is in rock and asked if sand or bentonite could be used under a 20 mil liner. I told him that that would be acceptable. He said the well would probably spud early next week. He was also giving notice, as stipulated, in case we want to inspect the pit.

11/25/05 op. chy'd to beotext: I line instead of bentonite & 20 mil.

Loc. almost complete, rig on loc. probably next week or this

weekend. Mark will withers cementing of casing.





13:31

007



Michael O. Leavits Governor

Kathleen Clarke Executive Director Lawell P Braxton Division Director State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah \$4114-5801 801-598-5340 801-359-3940 (Fax) 801-598-7223 (TDD)

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DEC 0 2 2002

DIVISION OF OIL, GAS AND MINING

UTAH DIVISION OF OIL, GAS AND MINING FACSIMILE COVER SHEET

DATE:	12/2/2002
FAX #:	secress.
ATTN:	Mr. Dan Jarvis
COMPANY:	SLC- Utah DOGM
DEPARTME	ENT: Oil & GAS
NUMBER O	F PAGES: (INCLUDING THIS ONE)
FROM:	M. Jones
If you Ne are sendin	do not receive all of the pages, or if they are illegible, please call (801)538-5340. In grom a sharp facsimile machine. Our telecopier number is (801)359-3940.
MESSAGE!	s: libutton 106 sheets.
Su	rface job - Marie Ogden St. #1
mportent:	This message is intended for the use of the individual or entity of which it is addressed

Important: This message is intended for the use of the individual or entity of which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.

13:31

S T OIL COMPANY

MARIE OGDEN STATE

API Well No.: 43-037-31825

11/30/2002 SAN JUAN

HALLIBURTON & YOU A WINNING TEAM.

9 5/8" SURFACE PIPE

Customer Representative: RANDY SHELTON/ 435-459-1027 Halliburton Operator: STEVE STROMBERG/ 486-0167 Ticket No.: 2166090



CEMENT JOB SUMMARY SHEET

Job Type

9 5/8" SURFACE PIPE

		,		Measured	
	Size	Weight	Grade	Depth	
Casing	9 5/8	36	J55	1,345	
Drill Pipe				•	
Tubing		•.			
Hole Size	12 1/4			1,345	
Mud Weight	•• •	8.5			

CEMENT DATA

Spacer

30 Bbls FRESH WATER

Cement 1 Additives STD

1% CaCl2, 1/4# FLOCELE

Weight (lb/gal) 15.60

Yield (cutt/sk) 1.18

Water (gal/sk) 5.28

750 Şaçkş

Displacement	101	8.34 (lb/gal)						
		CEMEN	ITING EQUIPMENT					
Provider	HES							
Guide Shoe		1 ea.	Centralizers	5 ea.				
Float Shoe		ea.	Plug Type	5 WIPER ea.				
Float Collar		68.	Packer	ft.				
DV Tool		ft.	Retainer : .	•				

DIV OIL GAS		ING Fax:1-43	35-613-5	828	Dec	2 '(:33 P	.01/05	,
NORTH AMERICA USA		RECKY MOL	MATAINS		- 10	TAH	U -	SAN JUA		
FA0104/217406		SHES EMPLOYEE NAME			- 101	CONTRACTO	,		W1	
COMICN Farmington, N.M.		STEVE STRO		·		CHAL R	HOE	ON 10003 N/ 435-459	40	
FICKET AMOUNT		S T OIL COM		·····	IAP	ana e		N 435-459	1027	
MELL LOCATION		01 OIL/ ISMA		RT CREEK	SA	3-037-3 F BOMB NUMB	ER TO	escription		
MONTICELLO, UTAH	Wall No			· · · · · · · · · · · · · · · · · · ·	الـا	P010		5/8" SURF	ACE PIPE	
MARIE OGDEN STATE HER BIP NAME / BIP \$1 (EXPOSURE HOURS)	1 HRs	SEC 22 / TWI	P 31 8 / R							·
S. STROMBERG/21740		D. HERRERA	209365	10.04 J.	YASSE	N/ 25814		9 44 J. D∕	VIS/ 23115	HR:
					R. VAI			e.o HA\	ENS HAND	
					• :					
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. 10200	310	10248931			32828/7		310		NS/ 772 9 7	310
Form. Name	Тур							<u> </u>	**************************************	
Form. Thickness Packer Type	From Set	At To	Date	Called Out 11/29/20	02	n Localic 11/30/2	on J 2002	ob Started 11/30/2002	Job Cor	npleted 0/2002
Bottom Hole Temp. Retainer Depth		ssure	Time	21:00	.];	05:30		11:00	14:	45
3.5°			THE						33.5	1.5
Type and Size Float Collar	QΝ	Make	Casino		Ueed EW	yveight 36.0	Size Gra	From	To #	Mex. Allow
Float Shoe Centralizers		8-4	Uner			<u> </u>				
Top Plug	1	5 WIPER	Tubing							
Limit Clamp DV Tool	1	HINGED	Onil Pir Open	oe L Hole			12 1/4		1,345	Shots/Ft.
Insert Float Guide Shoe	1	CEMENT NOSE	Perfora	itions .						
Weld-A		CEMENT MORE	Perfora DV To			**************************************				
Mud Type POLY	Density	8.5 LL/Gal	Date	Hours		Date 11/30	Hours 3.5			engage a ni Alija Tida
Disp. Fluid H20 Prop. Type Siz	Density e	Lb Lb/Ga	11/3	0 10.0	\dashv \vdash	11/30	3.5	SEE JO	B LOG	
Prop. Type Siz	:e				7 F				,	
Acid Type Ga Surfactant Ga	ĭ	%] [1		
NE Agent Ga	ĭ. <u> </u>	in			ゴ ヒ	*				
	WLb WLb	in	-		⊣		<u> </u>	┥		
Fric. RedGa	N_P			10.0	7. 5	· · · · · · · · · · · · · · · · · · ·	3.5			
Blocking Agent Perfpac Balls	Gal	Ъ		10.0						
Other	Qty.		Ordere	d	• • • • • • • • • • • • • • • • • • •	Avail.		Us	ed	
Other			Treatin	<u>a</u>	5	Disp.	5	Overal	5	3PM
Other				42.00			CHE	TOMER REC	VIEST SHO	S 17
			Feet	42.00		Reason	CUS	- VMER REV	CUES I, SMC	<u>- 71.</u>
Stage Sacks Cement	Bulk/S		Additive					W/R		Lbe/Ge/
1 780 STD	- 3	1% CaCI2, 1/4# F			***	· · · · · · · · · · · · · · · · · · ·		6.20		15.6
	8									
	B									
	,								war english dikt	STATE OF STREET
Circulating Breakdown	Max	dacement			Bkdn: G		30	Type: Pad:Bi	FRESH V	30
Lost Returns-) Cmt Rtrn#Bbi 63		t Returns-NO	SURFACE	Excess /	RetumG XC:		SURFA	Calc.D	isp Bbl	101 101
Average Shut in: Instant	Fre	Gradient 15 M		Treatme Cement	ent G	al - BB(al - BB)	188	Oisp:B	bl-Gal	101
The Control of					lume G		289			
1,									77.	22 g 10 di

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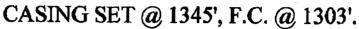
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER REPRESENTATIVE X

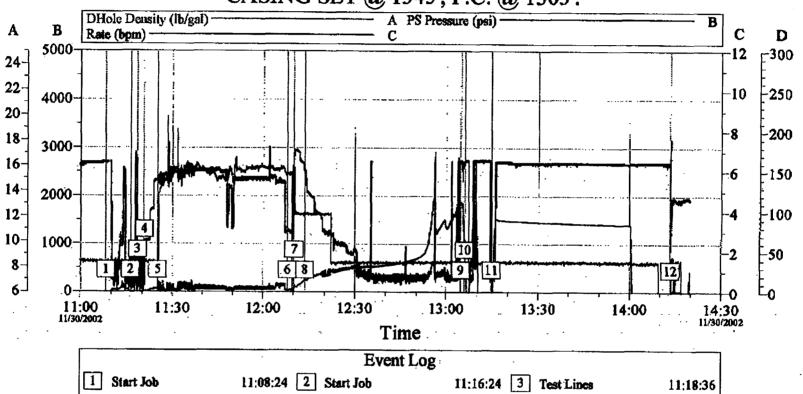
DIV OIL GAS & MINING Fax:1-435-613-5828 Dec 2 '02 13:33 P. 02/05 TICKET DATE TICKET# **JOB LOG** 2166090 11/30/02 BOA /STATE COUNTY **ROCKY MOUNTAINS** HATU SAN JUAN NORTH AMERICA H.E.S EMPLOYEE NAME BU (D / EMPL # **ZONAL ISOLATION 10003** FA0104/217406 STEVE STROMBERG LOCATION Farmington, N.M. S T OIL COMPANY RANDY SHELTON: 435-459-1027 OIL ISMAY, DESERT CREEK 43-037-31825 ZONAL ISOLATION 9 5/8" SURFACE PIPE MONTICELLO, UTAH MARIE OGDEN STAT SEC 22 / TWP 31 S / RNG 22 E 05:30 11/30/02 05:30 ARRIVE ON LOCATION, CONDUCT ASSESSMENT. 05:30 RIG CREW TOOH W/ D.P., D.C.'S. 06:15 RIG UP CSG CREW. HOLD SAFETY MEETING. START IN THE HOLE W/ CASING. 06:30 09:45 CASING CIRCULATED TO BOTTOM, CIRCULATE. 10:00 HOLD PJSM W/RIG.CREW, CO. REP. 10:30 RIG UP HES ON RIG FLOOR. 11:18 PRESSURE TEST PUMP/ LINES TO 2500 PSI. GOOD. 11:20 5.5 15.0 140 START PRE FLUSH DOWN CASING. 11:25 5.5 130 START CEMENT DOWN CASING @ 15.6#/ GAL. 12:07 3.0 157.0 75 RELEASE TOP WIPER PLUG "ON THE FLY". 12:10 7.0 75 START DISPLACEMENT DOWN CASING. 12:13 4.0 20.0 325 SLOW RATE, DISPLACEMENT REACHED CEMENT. 12:45 0.7 90.0 800 SLOW RATE: PREPARE TO BUMP PLUG. 99.0 13:00 0.5 1850 PLUG BUMPED @ 1400 PSI, PRESSURE UP TO 1850 PSI. 13:01 WAIT 1 MIN. TEST FLOATS, TEST GOOD. 13:14 0.5 0.5 1500 PRESSURE UP CASING AS PER CO. REP. TO 1500 PSI. 13:15 1500 HOLD FOR 30 MIN. 14:00 BLEED OFF PRESSURE. END JOB. 14:15 RIG DOWN HES. HOLD POST JOB SAFETY MEETING. PLUG DOWN @ 13:00, 11/30/02. 63 BBLS CEMENT RETURNED TO SURFACE. 9 5/8" 36# K-55 ST&C CASING TO 1345'. INSERT BAFFLE @ 1303. 12 1/4" OPEN HOLE TO 1345'. FRESH WATER DRILLING FLUID (8.33#/GAL.)

Thenks for calling HALLIBURTON !!!!!
STEVE, DUANE, JAY, RICK, and JAMAL.

WE APPRECIATE YOUR BUSINESS!!!!

9 5/8" SURFACE PIPE





	Event Log		
1 Start Job	11:08:24 2 Start Job	11:16:24 3 Test Lines	11:18:36
4 Pump Spacer 1	11:20:47 5 Pump Cement	11:25:15 6 Drop Top Plug	12:07:59
7 Pump Displacement	12:10:08 8 Disp. Reached Cement	12:13:36 9 Bump Plug	13:04:46
10 Test Floats	13:05:58 11 Pressure Test Casing	13:14:44 12 End Job	14:13:19

Customer:	STOIL CO.	Job Date	o: 11/30/02	Ticket #:	2166090
Well Description:	OIL	UWI:	43-037-31825	STROMBERG	HERRERA

HALLIBURTON
CemWin v1.4.0
30-Nov-02 14:45

Cementing Calculations for Surface Pipe and Production Strings

Well information						
Hole Size TD Casing Size Casing Depth Casing Weight Shoe Joint Length Float Collar @ Wellbore Fluid Spacer/Flush Displacement Fluid Desired TOC	12 1/4 in 1345 ft 9 5/8 in 1345 ft 36 lb/ft 42 ft 1303 ft 8.5 lb/gal 8.3 lb/gal 6.3 lb/gal 0 ft	V&H Casing&Hole Casing Capacity Buoyancy Factor Tall Cement Shoe Joint Annulus Cement	bbls 3.25	A COMP CONT.	lin.ft/cuft 3.193 2.304	cuft/lin 0.3132 0.434

Cement/Siurry Information

	Tail Cement Le	ad Cement 1 Le	ad Cement 2	•	
Density (lb/gal)	15.60	7 () () () () () () () () () (0.00	. 1	
Yield (cuft/sk)	1.18		0.00	, ,	
Water Req.(gal/sk)	5.20		6.00	,	.
Spacer/Flush (bbls)			0.00	9	Calculated Values
Initial Sacks	375.00		0.00		
Calculated cu.ft.	442.50	0.00	0.00	Dlauts	
% Excess	100.00		0.00	Displacement	bbls
Total cu.ft,	885.00	0.00	0.00	PSI to Land Pi	
Water Req.(bbis)	92,86	0.00	0.00	Top of Cement	
Sacks Required	750.00	0.00	0.00		all n n n
Barrels of Slurry	157.62	0.00	•	Loed	
Later March	2767.46	0.00	0.00	Long	
	2/0/.40		0.00	Centent Excess	bbls
		79.37	0.00	PSI to Lift Pipe	pai
	-1422.46	0.00	0.00	•	
		0.00	0.00 NOTE	The lineal feet of Spacer/	Flush is on TOC &
Differential Pressur				mped out of the annulus	

Differential Pressure

144 st	Density	Hydrostatic factor	Feat	Hydroetatic PSI	Differential PSI
Well Fluid	8.5	0.4418			
Disp. Fluid	8.3	0.4314	1303.00	562.17	
Tail Cement	15.6	0.8109	2767.46	2244.14	
Lead Cement 1		0.0000	-1422.46	0.00	
Lead Cement 2	0.	0.0000	0.00	0.00	
Spacer/Flush	8.3	0.4314	0:00	0.00	
Dismission 4 !-				2244,14	1681.9

Displacement in bbis

100.72

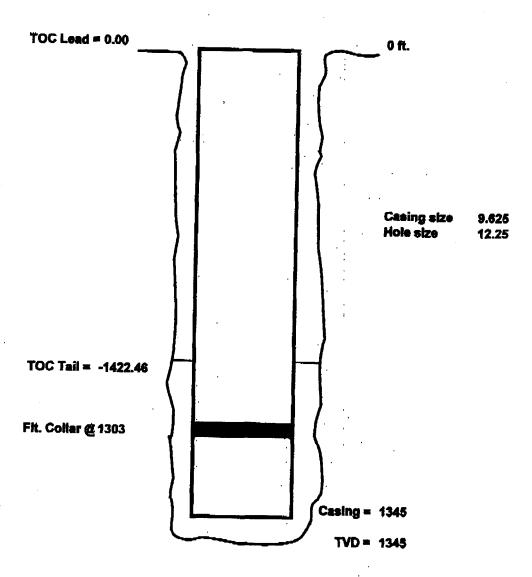
Absolute Volume

Tail	3310.12 gais
Lead 1	0.00 gals
Lead 2	0.00 male

Customer	STOIL COM
Well Name	Time 2 hours
Leaso	MARKE OGDE
County	HALL MAS
Ticket#	219609
Date	

13:34

Well Schematic







DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210 PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone (801) 359-3940 fax

(801) 538-7223 TTY

Lowell P. Braxton Division Director

www.nr.utah.gov

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number:

Marie Ogden State No. 1

API Number:

Michael O. Leavitt

Robert L. Morgan

Executive Director

Governor

43-037-31825

Operator:

ST Oil Company

Reference Document:

Original Sundry Notice dated December 10, 2002,

received by DOGM on December 10, 2002

Approval Conditions:

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
- 2. All balanced plugs shall be tagged to ensure that they are at the depths specified in the intent.
- 3. All annuli shall be cemented from a minimum depth of 100' to the surface.
- 4. Surface reclamation shall be done in accordance with R649-3-34 Well Site Restoration.
- 5. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
- 6. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
- 7. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet

December 10, 2002

Petroleum Engineer

Date



cotler

API Well No: 43-037-31825-00-00

Permit No:

Well Name/No: MARIE OGDEN STATE 1

Weight

(lb/ft)

Formation Depth

0

36

Length

(ft)

89

1345

Company Name: ST OIL COMPANY

Location: Sec: 22 T: 31S R: 23E Spot: SENW

Coordinates: X: 641544 Y: 4215482

Field Name: WILDCAT County Name: SAN JUAN

String Information				
String	Bottom (ft sub)	Diameter (inches)		
HOL1	89	17.5		
COND	89	13.325		
HOL2	1345	12.25		

SURF 1345 HOL3 5440 Cement from 89 ft. to surface Hole: 17.5 in. @ 89 ft. (18)(2304) 2541 TOCO Surface Cement from 1345 ft. to surface Conductor: 13.325 in. @ 89 ft.

> Hole: 12.25 in. @ 1345 ft. Surface: 9.625 in. @ 1345 ft.

Ply 2 55/(18)(2053) - 23 SK (275K)(1.18)(2304): 73' TOLE 1272'

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	89	0	UK	110
SURF	1345	0	G	750

9.625

7.875

Perforation Information

3800' - X	Add 60 sx plug (± 3850 - 3700')
-----------	------------------------------------

4606 — LASL 4855' — HATCH 5072' —	Plug 1 (7552)(1.18)(2053) = 182 toc @ 4918'
, \ /	100 6 4118

Hole: 7.875 in. @ 5440 ft.

TVD:

CTLR 2125 HNKRT 3800 LASL 4606 HATCH 4855 ISMY 5072 HOVNWE 5191 **ISMY** 5228 5323 **GOTH**

Formation Information

Formation

Depth

0.4871 = 2,053 /cf

TD:

Desertureek (Est)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

FORM 9

009		DIVISION OF OIL,	GAS AND N	MININ	∙s vG		5. 1	EASÉ DÉSIGNATION AND SERIAL NUMBER;
	SUNDR	RY NOTICES AND	DEDORT	re <i>c</i>	3N 34/E1	10	_	L-47152 FINDIAN, ALLOTTEE OR TRIBE NAME:
Do not us							\perp	
1. TYPE C	drill horizonta	ili new wells, significantly deepen ex al laturals. Use APPLICATION FOR	isting wolls below o	urent l form f	ottom-hole der or such proposi	eth, reenter pluggod wells, or to als.	7. L	INIT OF CA AGREEMENT NAME:
	OIL WEL	L 🗹 GAS WELL [8. ¥	VELL NAME and NUMBER:
2. NAME C	P OPERATOR:			_				arie Ogden State No. 1
3. APPRES	Company S OF OPERATOR:							7-31825
1801 E	Broadway, #600	:-y Denver	. Air CO	.802	202	PHONE NUMBER: (303) 296-1908	10. W	FIELD AND POOL, OR WILDCAT:
	ON OF WELL SES AT SURFACE: 1910		· · · · · · · · · · · · · · · · · · ·				1 ''	HAORI
							CÓU	NTY: San Juan
QTR/QTI	R, SECTION, TOWNSHIP. RA	ANGE, MERIDIAN: SENW	22 31S :	23E			STAT	TE:
11.	CHECK ARR	PODDIATE DOVE						HATU
	OF SUBMISSION	PROPRIATE BOXES	LO INDICA.	TE N	ATURE (OF NOTICE, REPO	RT, (OR OTHER DATA
		ACIDIZE				PE OF ACTION		
	CE OF INTENT	ALTER CASING			DEEPEN			REPERFORATE CURRENT FORMATION
Appro	rimete date work will start:	CASING REPAIR		7	FRACTURE '		느	SIDETRACK TO REPAIR WELL
12/	11/2002	CHANGE TO PREVIOUS	MI ANIC		NEW CONST			TEMPORARILY ABANDON
		CHANGE TUBING	PLANS		OPERATOR			TUBING REPAIR
Subs	EQUENT REPORT	CHANGE WELL NAME			PLUG AND A	BANDON		VENT OR FLARE
(Su	bmit Original Form Only)			Ш	PLUG BACK			WATER DISPOSAL
Date o	Work completion;	CHANGE WELL STATUS		Ш	PRODUCTION	(START/RESUME)		WATER SHUT-OFF
		COMMINGLE PRODUCIN	ig formations	\sqsubseteq	RECLAMATIC	IN OF WELL SITE		OTHER:
		CONVERT WELL TYPE		<u>Ц</u>	RECOMPLET	E - DIFFERENT FORMATION		-
o. Erect	Dry Hole Marker of All Cement ached for other det	iug from 50' to surface or weld on marker plat Class''G'' that	le dependin	g on p	surface r	equirements. Vern > (2/19/07	2	
NAME (FLEASE	Richard A.	Ferris			TITLE	Chief Operations E	ngine	er
FIGNATURE	Kieland	A. Ferris				12/10/2002		
					DATE .	12/10/2002		
This space for 31	ate use only)		· ·				N _C	
5/2000)	OF UTAH OIL, GAS DATE:	D BY THE ST H DIVISION O S, AND MININ 2/10/2002)F	ons on	COPY SE Date: Initials: Rovorse Side)	NT TO OPERATOR 12-10-02 (H1)	THE PLANT OF THE PARTY OF THE P	RECEIVED DEC 1 0 2002
(BY: 1/5 See At	SIKI Jul Hacked Condit	twas of a	4 <i>pp</i>	rova		D	IV. OF OIL, GAS & MINING

ST Oil Company

Marie Ogden State No. 1 API # 43-037-31825

SE NW, Section 22, T31S,23E San Juan County, Utah

Plugging And Abandonment Request

12-10-02

Conductor: 13-3/8" set at 89' and cemented with 110 sacks circulated

to surface.

Surface Casing: 9-5/8" set at 1345' and cemented with 750 sacks

circulated to surface.

Open Hole section: 7-7/8" hole from 1345' to 5440'

Tops:(Mudlogger)

2125'
3800'
4606
4855'
5072'
5191'
5228'
5323'
5375
5440'

Procedure to plug:

- 1. Spot 75 sack cement plug from 5100' to 4950' (Top of Ismay 5072')
- 2. Spot 50 sack cement plug from 3850' to 3700' (Top of Honaker Trail 3800')
- 3. Spot 50 sack cement plug from 1400' to 1290' (Surface Casing @ 1345')
- 3. Spot 20 sack cement plug from 50' to surface.
- 4. Erect Dry hole Marker or weld on marker plate depending on surface requirements.

prohibited.

STOIL COMPANY

FACSIMILE TRANSMISSION

DATE:	12-10-02	TIME:	2:15 PM
FAX#:	801-359-3940	PAGES:	3
			(including cover sheet)
TO:	Dustin Donce Rich Ferris	1	
FROM:	Rich Ferris		
ADDITION	AL COMMENTS:		
	for your review	and appr	wat!
:			
If transmission	on is not complete, please call imi	nediately. Ask	for
above, if you hi	Notice: The documents accompanying the integral of the information is a legally privileged. The information is aver received this telecopy in error, pleas original documents to us, and you are his	- Mondoe City (Of	une use of the recipient named

for return of the original documents to us, and you are hereby notified that any disclosure, copying,

distribution or the taking of any action in reliance of the contents of this telecopy information is strictly RECEIVED

DEC 1 0 2002



www.pason.com

16080 Table Mountain Parkway Ste 500 • Golden • CO • 80403 720-880-2000 • FAX: 720-880-0016

Friday, December 13, 2002

Oil & Gas Supervisor Utah Division Of Oil, Gas, & Mining 1594 W. North Temple Suite 1210 Salt Lake City, UT 84116

RE:

ST OIL COMPANY

MARIE OGDEN #4

SEC. 22, T31S, R23E SAN JUAN COUNTY, UT 43-031-31825

Dear Oil & Gas Supervisor:

Enclosed is the final computer colored log for the above referenced well.

We appreciate the opportunity to be of service to you and look forward to working with you again in the near future.

If you have any questions regarding the enclosed data, please contact us.

Sincerely.

Bill Nagel

Geological Manager

BN/alb

Encl:

1 Final Computer Colored Log.

Cc:

Rich Ferris, ST Oil Company, Denver, CO.

RECEIVED
DEC 1 7 2002

FORM 9

STATE OF UTAH

Do not use this farm for proposals to drill flavor wells, significantly woulds, spin for the form the form for proposals to drill flavored. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 7. UNIT or CA AGREEMENT NAME of CARREST AND AGRANDON (1997)	1	DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS AND M		5. LEASE DESIGNATION AND SERIAL NUMBER ML-47152
on true the form for proposals. In certain proposals, or of the form of proposals of the form of the f	SUNDRY	NOTICES AND REPORT	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
OIL WELL W GAS-WELL OTHER MArie Ogden State No. 1 NAME OF OPERATOR: T OIl Company ADDRESS DE OPERATOR: STATE CO ZIP 80202 PHONE NUMBER: (303) 296-1908 VIGATE HOCKATION OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL FOOTAGES AT SURFACE: 1910' fial x 1850' fivi CITACTRON OF WELL TYPE OF SUBMISSION TYPE OF SUBMISSION NOTICE OF INTENT SUBMISSION ADDRESS TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER BATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT SUBMISSION ADDRESS TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER BATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT SUBMISSION ADDRESS TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER BATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT SUBMISSION ADDRESS TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER BATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT SUBMISSION OFFICIAL TREAT SUBMISSION OFFICIAL TREAT SUBMISSION TYPE OF ACTION REPORTAGE TORING TUBING REPAIR UNION	o not use this form for proposals to drill r drill horizontal l	new wells, significantly deepen existing wells below ou aterals. Use APPLICATION FOR PERMIT TO DRILL	urrent bottom-hole depth, reenter plugged wells, or to form for such proposals.	7. UNIT or CA AGREEMENT NAME:
TOIL Company SODRESS OF CPERATOR BOIL BROADWAY, #600 CIEV Denver STATE CO ZID 80202 PRONE NUMBER: (303) 296-1908 TO STATE CO ZID 80202 PRONE NUMBER: (303) 296-1908 TO STATE COUNTY: San Juan COUNTY: San Juan COUNTY: San Juan COUNTY: San Juan CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: CHANGE TURING	OIL WELL	GAS:WELL OTHER		Marie Ogden State No. 1
301 Broadway, #600 GEV Denver STATE CO ZEP 80202 (303) 296-1908 Wilcat COUNTY: San Juan COUNTY: San Juan COUNTY: San Juan COUNTY: San Juan CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER BATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT (Submit in Displicate) Approximate date work will start: CHANGE TO PREVIOUS PLANS CHANGE TO PREVIOUS PLANS CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS PRODUCTION (STARTTRESUME) WATER CHANGE WELL STATUS CHANGE WELL STATUS COMMINISE PRODUCIONS FORMATION DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. RECEIVED DEC 2 3 2022	T Oil Company			037-31825
OUNTAGES AT SURFACE: 1910' fiel x 1850' fwl OUNTAGES AT SURFACE: 1910' field x 1850' fwl OUNTAGES AT SURFACE: 1910' fwl OUNTAGE	301 Broadway, #600 _{cix}	y Denver STATE CO ZII		
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DIV OF OIL GAS & MI				DEC 2 3 2002
DIV. OF OILYGRO & III.				DIV. OF OIL, GAS & MINING

(This space for State use only)

NAME (PLEASE PRINT)

Richard A. Ferris

Chief Operations Engineer

12/17/2002

DATE

FORM 9

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

12 DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47152
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Marie Ogden State No. 1
2. NAME OF OPERATOR: ST Oil Company	9. API NUMBER: 037-31825
3. ADDRESS OF OPERATOR: PHONE NUMBER: (303) 296-1908	10. FIELD AND POOL, OR WILDCAT: Wilcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1910' find x 1850' fwl	COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 22 31S 23E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR GHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL
Date of work completion: CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
12/13/2002 COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	es, etc.
This drilling well was Plugged as follows on 12/13/2002 due to not finding any commercially	productive bydrocarbone:
This drining well was riugged as follows off 12/13/2002 due to not finding any commercially	productive rival ocal bons.
1. Spotted a 75 sack cement plug at 5115'. Tagged top with drill pipe at 4858'.	
2. Spotted a 75 sack cement plug at 3870'. Tagged top with drill pipe at 3669'.	
3. Spotted a 50 sack cement plug at 1395'. Tagged top with drill pipe at 1330'4. Spotted a 30 sack cement plug at 1330'.	
5. Spotted a 50 sack cement plug at 50'. Circulated to surface.	RECEIVED
	HI-O-
Plugging Witnessed by Mark Jones, Utah Division Oil, Gas, & Mining,	DEC 2 3 2002
	DIV. OF OIL, GAS & MINING
	DIV. OF OIL, GAS &
NAME (PLEASE PRINT) Richard A. Ferris Chief Operations	Engineer
SIGNATURE Richard A. Ferris DATE 12/17/2002	

(This space for State use only)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM								
Operator:	ST Oil Company		Operator Account Number: N 2 190					
Address:	1801 Broadway, Suite 600							
	city Denver							
	state CO	zip 80202	Phone Number: (303) 296-1908					

.

API Number	Wel	l Name	QQ	Sec	Twp	Rng County		
037-31825	Marie Ogden State	No. 1	senw	22	22 31S	23E San Jua Entity Assignme Effective Date		
Action Code	Current Entity Number	New Entity Number	S	pud Da	te			
Α	99999	13704	1	1/28/20)2	11/20/2002		
omments:						/	- 15-03	

Wall 2

API Number	Well	QQ	QQ Sec Twp			Rng County		
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		y Assignment fective Date	
omments:								

Well 3

API Number	Well !	QQ	Sec	Twp	Rng	County	
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		y Assignment fective Date
omments:							····

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entitle D

 Other (Explain in 'comments' section) RECEIVED

_		O41	/I'''s and I as the	:	f = = 4 - 1		\Box	
Е	-	Otner	(Explain	ın	'comments'	section		U

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Signature 1/9/2002 **Chief Operations Engineer** Title Date

Richard A. Ferris

Name (Please Print)

STATE OF UTAH

CONFIDENTIAL FORM 9

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

	DIVISION OF OIL, GAS AND MIR	NING		EASE DESIGNATION AND SERIAL NUMBER: -47152
SUNDRY	NOTICES AND REPORTS	ON WELLS	6. IF	INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill n	new wells, significantly deepen existing wells below curr aterals. Use APPLICATION FOR PERMIT TO DRILL fo	rent bottom-hole depth, reent	er plugged wells, or to	NIT or CA AGREEMENT NAME:
TYPE OF WELL OIL WELL				ELL NAME and NUMBER:
2. NAME OF OPERATOR;				arie Ogden State No. 1
ST Oil Company				7-31825
3. ADDRESS OF OPERATOR: 1081 Broadway, St. 600	y Denver STAGE CO ZE			FIELD AND POOL, OR WILDCAT: Ildcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1910'	fnl x 1850' fwl		cou	NTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RAN	ige, meridian: SENW 22 31S 2	3E	STA	re: UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	E NATURE OF N	IOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE C	F ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTI	ON	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANG	Œ	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDO	ON [VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (STA	RT/RESUME)	WATER SHUT-OFF
·	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF	WELL SITE	OTHER: Hold Confidential
	CONVERT WELL TYPE	RECOMPLETE - DIF	FERENT FORMATION	
Request that data be held	OMPLETED OPERATIONS. Clearly show all pr		, R	RECEIVED FEB 1 3 2003 FOIL, GAS & MINING
NAME (PLEASE PRINT) Richard A	17		hief Operations Eng	
SIGNATURE MILAND	4. tenis	DATE 2/	/11/2003	

(This space for State use only)

CONFIDENTIAL

FORM 8

AMENDED REPORT

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

4					T OF NA									anges)		
			DIVISIO	/ISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47152								RIAL NUMBER:				
WEL	L COM	PLE.	TION	OR I	RECO	MPL	ETIC	N RI	EPOF	RT ANI	LOG	6. IF IN	IDIAN, AL	LOTTEE OR TRIB	E NAME	
1a. TYPE OF WELL	;	(WELL	GAS WELL DRY OTHER 7. UNIT or CA AGREEMENT NAME							<u> </u>	_				
	HORIZ.	[E	DEEP-	8. WELL NAME and NUMBER: RE- ENTRY RESVR. OTHER Marie Ogden State No.1												
2. NAME OF OPERATOR: ST Oil Company 9. API NUMBER: 9. API NUMBER: 9. API NUMBER: 10. FIELD AND POOL OF WILDOW																
1801 Broad	way, Suit		ory Dei	nver		CTATE	СО	zie 80 2	202		NUMBER: 13),296-1908		.D AND P	POOL, OR WILDCA	Т	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1910' fnl x 1850' fwl EXPIRED, AT SURFACE: 1910' fnl x 1850' fwl																
AT TOP PRODUC	CING INTERVA	AL REPO	ORTED BEL	ow: 1	1910' fr	ıl x 18	350' fw	l	ON	7:13	3-04	187.00 187.00 188.00				
AT TOTAL DEPT									<i>te</i>	<u> </u>		12. co Sa	_{UNTY} n Jua		STATE UTA	ιН
14. DATE SPUDDED 11/28/2002	2	12/11	T.D. REACH			3/200)2	F	ABANDON		READY TO PRODUC	E	6,5	TIONS (DF, RKB, 10 KB; 6,49		
18. TOTAL DEPTH:	TVD 5.43	30			BACK T.D	TVD	0		20. IF	MULTIPLE CO	OMPLETIONS, HOW	MANY? * 21		H BRIDGE MD G SET: TVD		
22. TYPE ELECTRIC	ion-GR-S	SP, C	NLD-G	R, Br	Submit cop	y of each) R. ^e Mud	Log -	Q-17-c	WAS DST	L CORED? RUN? NAL SURVEY?	NO [NO [NO [YE	S 🗹 (Subm	it analysis) it report) it copy)	
24. CASING AND LI	NER RECORD	(Repor	t all strings	set in w	eli)											
HOLE SIZE	SIZE/GRÁI	DE	WEIGHT	(#/ft.)	TOP (I	MD)	вотто	M (MD)		CEMENTER EPTH	CEMENT TYPE & NO. OF SACKS	SLURR' VOLUME (I		CEMENT TOP **	AMOUNT PULI	_ED
17-1/2"	13-3/ 8	J	487		0		8	9			Class B 110	23		Circ to Sur	0	
12-1/4"	9-5/8	K	36#	#	0		1,3	345			Class G 750	157	'	Circ to Sur	0	
																_
									-						· · · · ·	_
25. TUBING RECOR	RD				<u> </u>							L			1	_
SIZE	DEPTH SE	ET (MD)	PACKE	ER SET (MD)	SIZE		DEPTH	SET (MD) PACKEI	R SET (MD)	SIZE	DEF	PTH SET (MD)	PACKER SET (N	/ID)
26. PRODUCING IN	TERVALS						!			27 BEREOI	RATION RECORD					
FORMATION		TOF	P (MD)	вотто	OM (MD)	TOP	(TVD)	вотто	M (TVD)		L (Top/Bot - MD)	SIZE NO	O. HOLES	S PERFOR/	ATION STATUS	
(A)														Open	Squeezed	
(B)														Open	Squeezed	
(C)														+	Squeezed	
(D)												 -		1 =	Squeezed	
28. ACID, FRACTUR	RE, TREATMEN	NT, CEN	ENT SQUE	EZE, ET	c.			<u> </u>			· · · · · · · · · · · · · · · · · · ·			1990	-44444	
DEPTH I	INTERVAL		T						AM	OUNT AND T	YPE OF MATERIAL					—
		-	 											***************************************		—
															······································	
29. ENCLOSED ATT	TACHMENTS:		<u> </u>			_				<u>.</u>			,,,,,	30. WELL	STATUS:	—
=	RICAL/MECHAI			CEMENT	T VERIFICA	TION	=	GEOLOGI CORE AN			DST REPORT	DIRECTIO	<u></u>		P&A	
5/2000)							(00	NTINUE	י אס ח	BACK)		RE	ECE	IVED		

FEB 1 3 2003



31, INITIAL PRODUCTION INTERVAL A (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION GAS - MCF: WATER - BBL: PROD. METHOD: OIL - BBL: RATES: TBG. PRESS. CHOKE SIZE: CSG. PRESS API GRAVITY BTU ~ GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: WATER - BBL: GAS - MCF: INTERVAL STATUS: RATES: INTERVAL B (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: PROD. METHOD: RATES: CHOKE SIZE: TBG. PRESS. CSG. PRESS. API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBI : GAS - MCF WATER - BBL: INTERVAL STATUS: RATES: INTERVAL C (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: PROD. METHOD: RATES: CHOKE SIZE: TBG. PRESS. CSG. PRESS. API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: INTERVAL STATUS: INTERVAL D (As shown in item #26) DATE FIRST PRODUCED: TEST PRODUCTION OIL - BBL: TEST DATE: HOURS TESTED: WATER - BBL: PROD METHOD: GAS - MCF: RATES: CHOKE SIZE: TRG PRESS CSG. PRESS. API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: INTERVAL STATUS: RATES: 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.) 33. SUMMARY OF POROUS ZONES (Include Aquifers): 34. FORMATION (Log) MARKERS: Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Top (MD) Bottom Top (Measured Depth) Formation Descriptions, Contents, etc. Name (MD) Entrada 43 Upper Ismay 5,110 5,170 Core #1 mudstone &,anhydrite Navaio SS 434 Core #2 mudstone & shale Upper Ismay 5,170 5,232 844 Kaventa Lower Ismay 5,275 5,335 Core #3 anhydrite, dolomite & shale Wingate 1.026 5,335 Dst #1 15-60-60-369 minutes: IHP Lower Ismay 5,310 Chinle 1,352 2669;IOP 66-216;ISIP 1852;FOP 247-Shinarump 1,730 442;FSIP1882;FHP 2670; 40'GCM Honaker Trail 3,730 774' SALT WATER Upper Ismay 5,094 Lower Ismay 5,224 Desert Creek 5,372 35. ADDITIONAL REMARKS (Include plugging procedure) 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. NAME (PLEASE PRINT) Richard A. Ferris Chief Operations Engineer TITLE 2/11/2003 win SIGNATURE DATE This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations,
- ** ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Baker Oil Tools

Operator: ST Oil Co.

Marie Ogden State #1 Well Name:

Dst No:

Date: 12-08-2002

Drillstem Test Report



Technical Services
Ph. (928) 505-8389

Baker Oil Tools

ST OIL C	0.	MARIE O	GDEN STATE #1	The state of the s	DST #1
Contractor Rig No. Spot Sec Twp Rng Field County State Elevation Formation	Aztec Drilling 1910' FNL & 1850' FWL 22 31 S 23 E Wildcat San Juan Utah 6510' KB Lower Ismay	Surface Choke Bottom Choke Hole Size Core Hole Size DP Size & Wt Wt Pipe ID of DC Length of DC Total Depth Type of Test Interval	1/8" 3/4" 7 7/8" 4 1/2" 16.60 2 1/2" 618' 5335' Conventional 5310'- 5335'	Mud Type Weight 9.5 Viscosity 35 Water Loss Filter Cake RW @ 550 B.H.T. 110.6 Co. Rep. Randy Sheltor Tester Mike Fraley Baker Dist Hobbs NM Ticket No 361529	
40.0' Sligh 773.5' Wate Top: Middle: 165	fluid = 5.83 bbl., consisting of: thy gas cut mud = 0.59 bbl. er = 5.26 bbl. 550 ppm Cl. 6,000 ppm Cl. 6,000 ppm Cl.			Gauge Type Electronic No. 21059 Cap 1 Depth 5315	psig cc cc cc cc cc cu ft PI @ 60 Deg F
	A D C E F		K G G	Flow 1 15 Shut-in 1 60 Flow 2 60	2

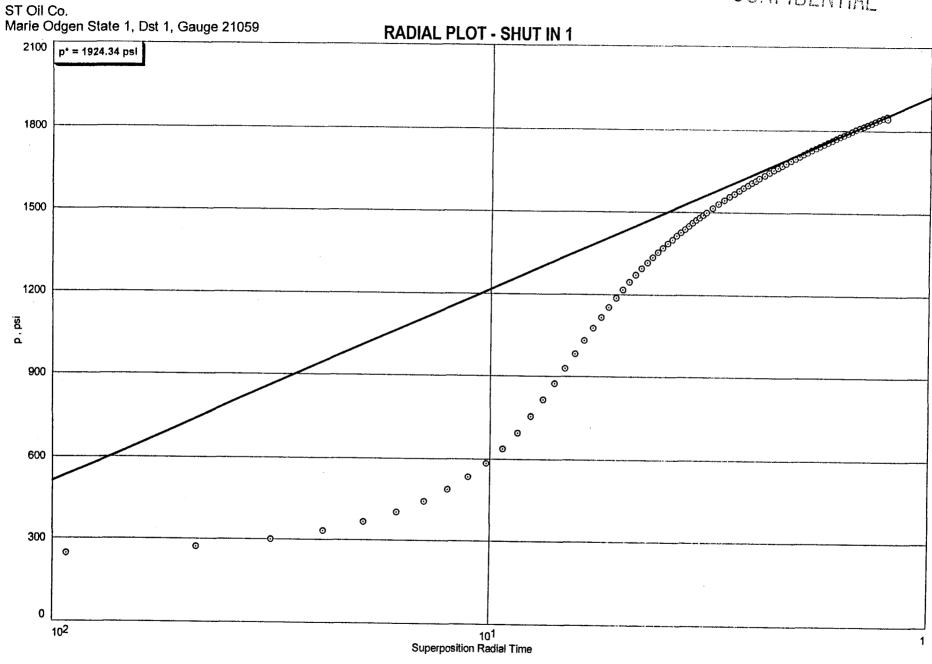




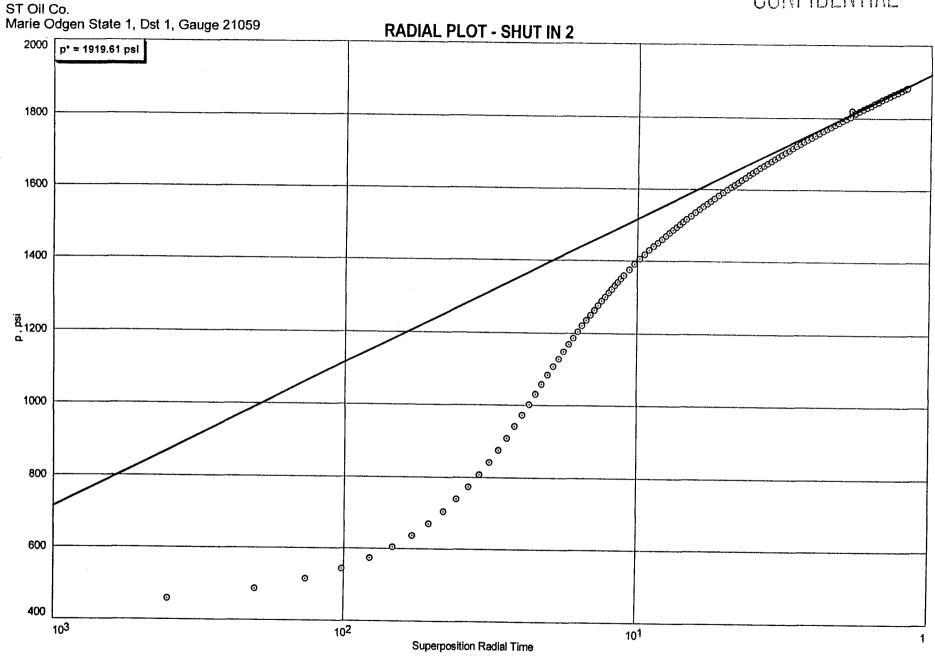
ST Oil Co. Marie Ogden State #1, Dst #1

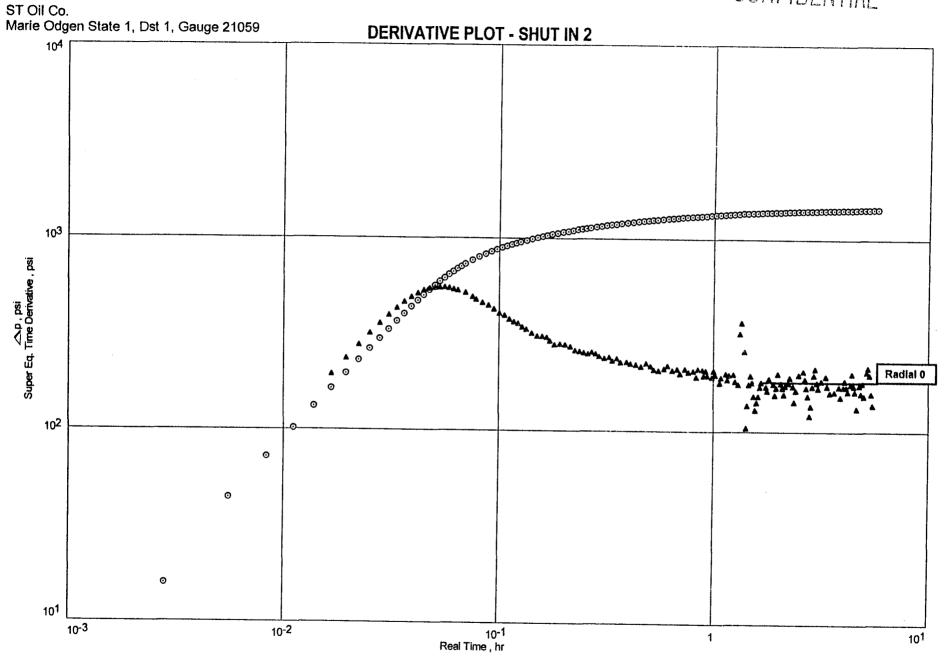
т	IME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE	BOTTOM HOLE	
23:36 hrs	0 Min	1/8"	Strong Blow	MCF/D	PRESSURE 66	REMARKS Opened for flow 1:
23:51	15	170	Strong		224	·
20.01	60		Guong			End of flow 1 - Closed for shut-in 1:
00:51	0	 	Weak Blow		1852	End of shut-in 1:
00.51	5		2.5 oz		247	Opened for flow 2:
	10					
			4.0		ļ	
	15		4.75		<u> </u>	
	20		5.25	<u> </u>		
	25		5.75			
	30		6.25			
	35		6.75			
	40		7.25			
	45		7.5			
	50		7.75			
	55		8.0			
01:51	60		8.0		442	End of flow 2 - Closed for shut-in 2:
08:00					1882	End of shut-in 2 - Pulled tool:
**						
					 	
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				····		
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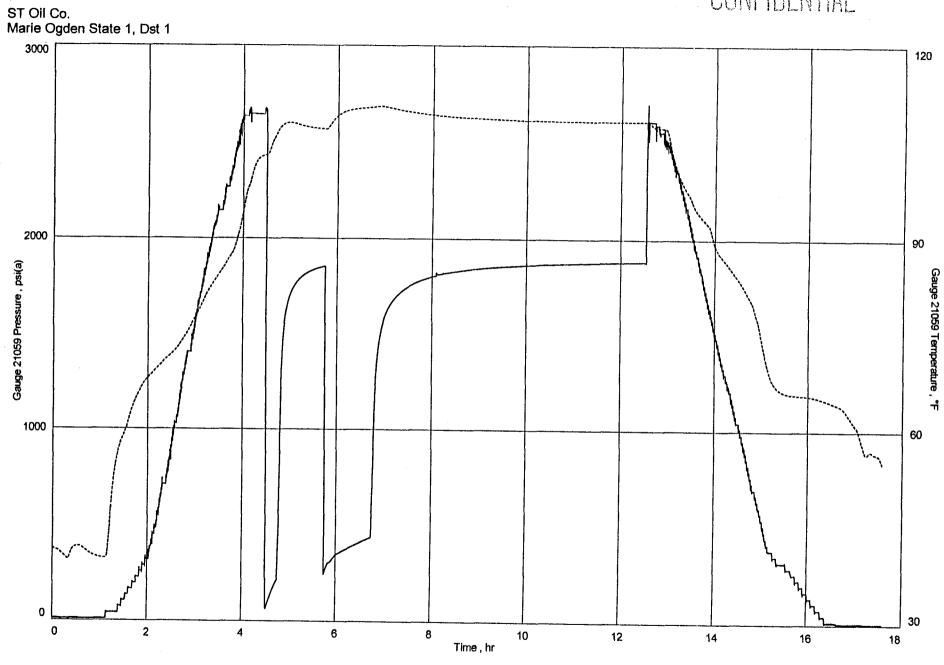


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Dst #

TOOL SCHEMATIC	TOOL DESCRIPTION	O.D.	I.D.	LENGTH	DEPTH
	SURFACE FLOWHEAD				
H	DRILL PIPE TO SURFACE	4.50	3.83	4648.22	4648.22
	DRILL COLLARS	6.25	2.25	552.50	5200.72
	REVERSING SUB	6.25	2.25	1.50	5202.22
	DRILL COLLARS	6.25	2.25	62.50	5264.72
	CROSSOVER SUB	6.25	2.25	1.00	5265.72
53					
\bowtie	ROTATING SHUT-IN TOOL	5.00	0.75	11.75	5277.47
1 E	HYDRAULIC TOOL	5.00	1.17	4.95	5282.42
	INSIDE RECORDER	5.00	0.80	5.00	5287.42
	HYDRAULIC JARS	4.75	2.38	8.09	5295.51
	SAFETY JOINT	4.75	1.50	1.80	5297.31
X X	PACKER	8.00	1.50	3.90	5301.21
	PACKER	8.00	1.50	8.81	5310.02
	OUTSIDE RECORDERS	5.00	1.50	4.58	5314.60
	PERFORATION	5.00	3.00	15.00	5329.60
	PERFORATED SHOE	5.00	3.00	5.40	5335.00



DISTRIBUTION OF FINAL REPORTS

ST Oil Co. [5 + Disk] 1801 Broadway, Ste 600 Denver CO 80202



CORE LABORATORIES

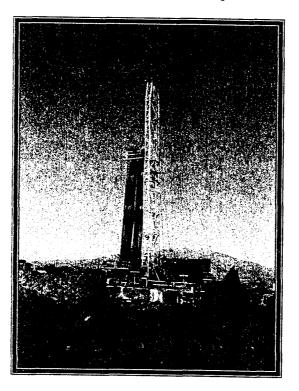
538 Olathe St, Suite F Aurora, Colorado 80011 Telephone: 720.532.2666 Fax:720.532.2665

Core Analysis Report

For

ST Oil Company

#1 Marie Ogden State
Sec. 22 T31S R23E
San Juan County, Utah





Job: Date:

Depth	Permea	bility	Helium	Grain		Sample
	Air	Klink	Porosity	Densit	У	Description
(ft)	(md)	<u>(md)</u>	(%)	(g/cc)		en e
<u>Core</u>	No. 1 U	pper Isn				Recovered 60.0/60.0
			No Analy	sis Requ	ested	
Core	. No. 2 L	lpper Isn	nay Fm.	5170.0 -	5230,0	Recovered 60.0/60.0
5174.3	0.001	< 0.001	1.0	2.72	Ls, shy	, brn, vfg, dns
5175.6	0.097	0.055	10.4	2.78	Ls, shy	, brn, vfg, dns, anhy nod
5176.5	0.131	0.077	10.0	2.82	Ls, shy,	, brn, vfg, dns, anhy nod
5177.6	< 0.001	< 0.001	1.5	2.78	Ls, shy,	, brn, vfg, dns, alg, fract
5178.6	0.004	0.001	1.5	2.76	Ls, xln,	It brn, fgr, alg, fract
5179.5	0.002	< 0.001	1.2	2.74	Ls, xin,	It gry to It brn, fgr, alg, sli foss
5180.5	0.006	0.002	1.9	2.79	Ls, xIn,	It gry to It brn, fgr, alg
5181.6	0.696	0.496	4.2	2.80	Ls, xln,	sli vug, It gry to It brn, fgr, alg, sli fo
5182.5	0.216	0.137	6.7	2.79	Ls, xin,	vug, It gry to It brn, fgr, alg, sli foss
5183.4	0.001	< 0.001	1.0	2.76	Ls, xln,	sli vug, lt gry to lt brn, fgr, alg, sli fo
5184.5	0.006	0.002	9.5	2.79	Ls, xln,	sli vug, lt gry to lt brn, fgr, alg, sli fo
5185.4	0.858	0.650	14.9	2.77	Ls, xln,	sli vug, lt gry to lt brn, fgr, alg, sli fo
5186.3	0.062	0.032	14.0	2.82	Ls, xln,	It gry to It bm, fgr, alg, sli foss
	Core 5174.3 5175.6 5176.5 5177.6 5178.6 5179.5 5180.5 5181.6 5182.5 5183.4 5184.5 5185.4	Air (md) Core No. 1 U Core No. 2 U 5174.3 0.001 5175.6 0.097 5176.5 0.131 5177.6 <0.001 5178.6 0.004 5179.5 0.002 5180.5 0.006 5181.6 0.696 5182.5 0.216 5183.4 0.001 5184.5 0.006 5185.4 0.858	Air (md) Klink (md) Core No. 1 Upper Isn 5174.3 0.001 <0.001	Air (md) Klink (md) Porosity (%) Core No. 1 Upper Ismay Fm. No Analy Core No. 2 Upper Ismay Fm. 5174.3 0.001 <0.001	Air (md) Klink (md) Porosity (g/cc) Densit (g/cc) Core No. 1 Upper Ismay Fm. 5110.0 - No Analysis Requirements Core No. 2 Upper Ismay Fm. 5170.0 - S170.0 - No Analysis Requirements 5174.3 0.001 <0.001	Air (md) Klink (md) Porosity (g/cc) Density (g/cc) Core No. 1 Upper Ismay Fm. 5110.0 - 5170.0 No Analysis Requested Core No. 2 Upper Ismay Fm. 5170.0 - 5230.0 5174.3 0.001 <0.001 1.0 2.72 Ls, shy 5175.6 0.097 0.055 10.4 2.78 Ls, shy 5176.5 0.131 0.077 10.0 2.82 Ls, shy 5177.6 <0.001 <0.001 1.5 2.78 Ls, shy 5178.6 0.004 0.001 1.5 2.78 Ls, shy 5178.6 0.004 0.001 1.5 2.76 Ls, xln, 5179.5 0.002 <0.001 1.2 2.74 Ls, xln, 5180.5 0.006 0.002 1.9 2.79 Ls, xln, 5181.6 0.696 0.496 4.2 2.80 Ls, xln, 5182.5 0.216 0.137 6.7 2.79 Ls, xln, 5183.4 0.001 <0.001 1.0 2.76 Ls, xln, 5183.4 0.001 <0.001 1.0 2.76 Ls, xln, 5184.5 0.006 0.002 9.5 2.79 Ls, xln, 5185.4 0.858 0.650 14.9 2.77 Ls, xln, 5185.4 0.858 0.650 14.9 2.77 Ls, xln,



Job:

22042

Date: 03-Jan-2003

Reference	Depth	Permea	bility	Helium	Grain	Sample
Number	4043	Air	Klink	Porosity		<i>l</i> Description
	<u>(ft)</u>	(md)	<u>(md)</u>	(%)	<u>(g/cc)</u>	
	Core	No. 3 I	ower Isn	nay Fm.	5275.0 - :	5335.0 Recovered 60.0/60.0
14	5303.6	0.001		6.4	2.86	Ls, shy, bm, vfg, dns
15	5304.5	0.002	0.001	8.6	2.83	Ls, shy, brn, vfg, dns
16	5305.5	0.003	0.001	7.9	2.77	Ls, shy, brn, vfg, dns
17	5306.6	0.004	0.001	8.7	2.80	Ls, shy, brn, vfg, dns
18	5307.5	0.067	0.035	15.5	2.81	Ls, xln, brn, fgr, alg
19	5308.5	0.455	0.320	8.7	2.86	Ls, xln, sli vug, lt brn, fgr, alg, sli foss
20	5309.4	0.149	0.090	7.3	2.86	Ls, xln, sli vug, lt bm, fgr, alg, sli foss
21	5310.5	0.012	0.004	3.1	2.87	Ls, xin, sli vug, lt brn, fgr, alg, sli foss
22	5311.5	1.29	0.990	7.6	2.86	Ls, dol, xln, vug, lt brn, m to fgr, sli alg
23	5312.4	77.2	67.3	12.2	2.83	Ls, dol, xln, vug, lt brn, m to fgr, sti alg
24	5313.6	16.9	13.5	11.8	2.84	l.s, dol, xln, v vug, lt brn, m to fgr, sli alg
25	5314.5	0.645	0.474	6.3	2.82	Ls, dol, xln, vug, lt brn, m to fgr, alg
26	5315.6	6.52	5.13	7.6	2.81	Ls, dol, xln, vug, lt brn, m to fgr, alg
27	5316.5	4.65	3.55	5.7	2.82	Ls, dol, xln, v vug, lt brn, m to fgr, sli alg
28	5317.5	88.8	76.6	14.7	2.86	Ls, dol, xln, v vug, lt brn, m to fgr, sli alg
29	5318.5	1.39	1.03	9.4	2.83	Ls, dol xln, sli vug, lt bm, fgr, alg, sli foss



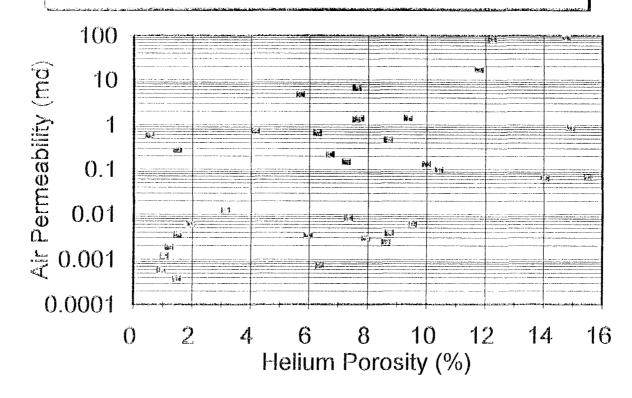
Job: Date:

Reference	Depth	Permea	bility	Helium	Grain	Sample
Number		Air	Klink	Porosity	Density	Description
	(ft)	(md)	(md)	(%)	(g/cc)	
30	5319.5	1.36	1.00	7.7	2.85	Ls, dol xln, sli vug, lt brn, fgr, sli alg, sli foss
31	5320.5	0.008	0.003	7.3	2.82	Ls, xln, lt brn, fgr, sli alg, sli foss
32	5321.4	0.003	0.001	6.0	2.82	Ls, xln, lt brn, fgr, sli alg, sli foss
33	5322.5	0.275	0.180	1.5	2.78	Sh, calc, dk brn, vfgr, dns
34	5323.3	0.569	0.411	0.5	2.66	Sh, calc, dk brn, vfgr, dns, fract



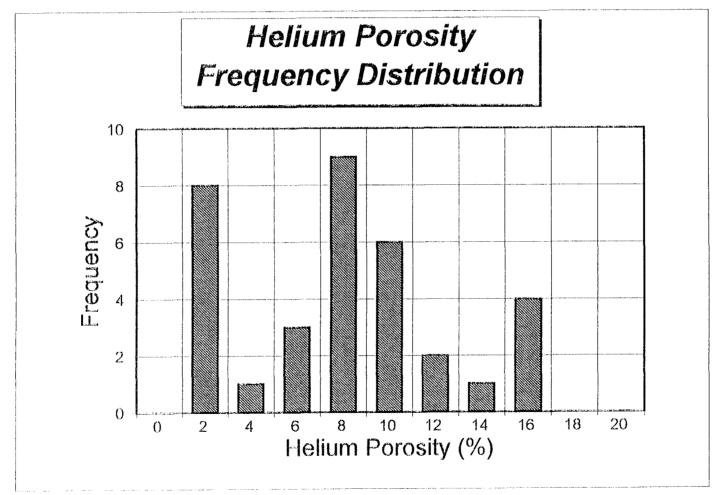
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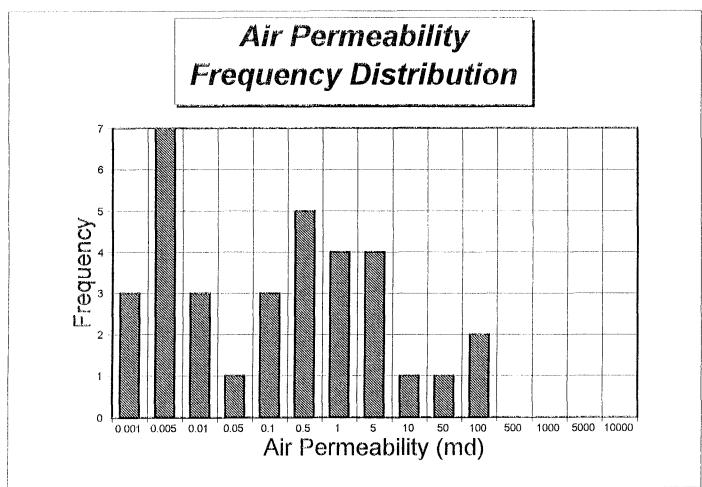


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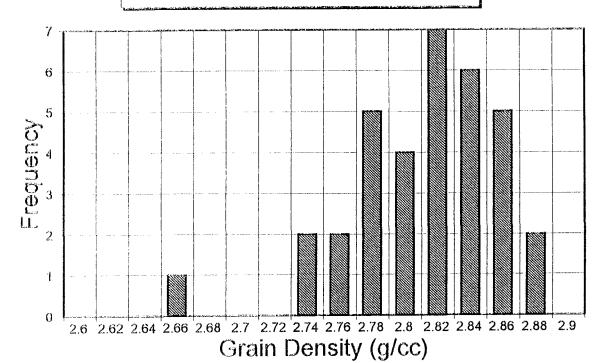
Job: Date:





Job: Date:







Job: Date: 22042

	Permea	bility (ı	nd)*	Porosity (%)**	
Zone	Median	Arith.	Geom.	Median Arith.	Geom.
		Mean	Mean	Mean	Mean
Zone1	0.114	5.953	0.083	7.481 7.136	5.294

^{*} Values above 0.00 md

^{**} Values above 0.00 %



Job: Date: 22042 03-Jan-2003

Zone1 Air Permeability Regression

Regression Output:

 Constant
 -2.294518

 Std Err of Y Est
 1.319971

 R Squared
 0.245257

 No. of Observations
 34.000000

 Degrees of Freedom
 32.000000

 X Coefficient(s)
 0.169777

 Std Err of Coef.
 0.052649

Zone1 Klinkenberg Permeability Regression Regression Output:

 Constant
 -2.887019

 Std Err of Y Est
 1.549043

 R Squared
 0.248615

 No. of Observations
 34.000000

 Degrees of Freedom
 32.000000

 X Coefficient(s)
 0.201048

 Std Err of Coef.
 0.061786

Company: ST Oil Company

Well: #1 Marie Ogden State

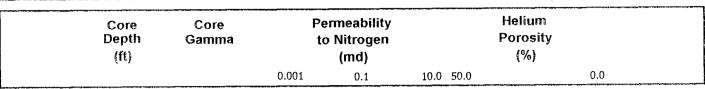
Location: Sec. 22 T31S R23E

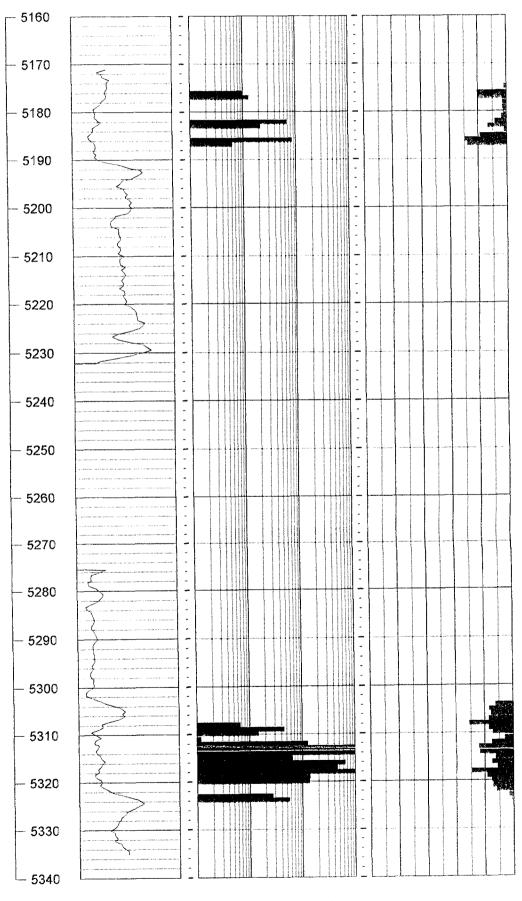
County, State: San Juan County, Utah

Project:

22042

Date: 30-Dec-02





GEOLOGIST'S WELL SITE REPORT

FOR THE

ST OIL COMPANY

Marie Ogden #1 State (senw Sec 22-T31S-R23E) SAN JUAN CO., UTAH

PARADOX BASIN

To: ST Oil Company
1801 Broadway, Suite 600
Denver, Colorado 80202
rferris@trinitymgt.com
subtler@trinitymgt.com
JOJEGRE@aol.com
rtiddensshorco@att.net

December 14, 2002 <u>CONFIDENTIAL</u>

By: Gene M. Stevenson CPGS #06232 (435) 672-2277 gstevenson1@citlink.net

GEOLOGIST'S WELL SITE REPORT

ST OIL COMPANY

Marie Ogden #1 State (senw Sec 22-T31S-R23E) SAN JUAN CO., UTAH

WELL SUMMARY DATA

OPERATOR:

ST Oil Company

ADDRESS:

1801 Broadway, Suite 600, Denver, CO 80202

MAIN OFFICE NUMBER:

303-296-1908 FAX: 303-296-0329

WELL NAME:

Marie Ogden #1 State

LOCATION:

(senw) 1750 FWL, 1820 FNL, Sec 22-T31S-R23E, San Juan Co., Utah

FIELD:

Wildcat

API NUMBER:

43-037-31825

ELEVATION:

K.B. 6,510 ft; D.F. 6,509 ft; G.L. 6,498 ft

SPUD DATE:

November 27, 2002

TD DATE:

December 11, 2002 December 12, 2002

COMPLETION DATE: TOTAL DEPTH:

Drillers TD: 5,430 ft; Logger TD: 5386 ft

STATUS:

P & A

DRILLING ENGINEER:

Randy Shelton (435) 459-1027

DRILLING COMPANY:

Aztec Well Service, Rig #289 P.O. Box 100, Aztec, NM 87410 (505) 334-6191

TOOL PUSHER(S):

Walt Floyd (505) 320-9579

MUDLOGGER:

Geoff Bousum, PASON Systems; (435) 790-0678 (cell); (720) 880-2000

WELLSITE GEOLOGIST:

Gene M. Stevenson, Bluff, UT (435) 672-2277

DRILLING MUD COMPANY: Anchor Drilling Fluids, Thermopolis, WY 82443 (303) 892-5610

MUD ENGINEER:

John Nitschke (307) 350-8458 Fresh Water and Polymer gel.

DRILLING FLUID(S):

9-5/8" set to 1,345 ft (36# J/K-55 STC)

SURFACE CASING:

None

INTERMEDIATE CASING: BOTTOM HOLE DIAMETER: 7-7/8"

CUTTINGS SAMPLE INTERVAL(S): 30 ft intervals from 1350 ft to 4600 ft & 10 ft intervals to TD;

PASON mudlogger on @ 2800 ft.

CORE INTERVALS:

Core #1: 5110 - 5170 ft; Core #2: 5170 - 5230 ft; Core #3: 5275 - 5335 ft Upper Ismay, Hovenweep Shale, Lower Ismay & upper Gothic Shale

CORE COMPANY:

Baker Hughes Inteq (307) 472-0001; Roy Ross-Core Hand

DST COMPANY:

Baker Hughes, P.O. Box 1828, Hobbs, NM 88241; Mike Fraley-Tester

DST INTERVALS:

5310 – 5335 ft (Lower Ismay porosity zone)

PIPE FISH COMPANY:

Weatherford Fishing & Cutting; Dicky Nuttall, Farmington, NM WIRELINE LOGGING COMPANY: Schlumberger, Farmington, NM (505) 325-5006 (office)

ENGINEER:

Konark Singh

LOGGING SUITE AND INTERVALS WITNESSED:

Platform Express f/ TD to surface casing: Array Induction-SP/GR Compensated Neutron-Litho Density-GR BHC Sonic Log-GR f/ TD to surface

DEVIATION SURVEYS

Depth:	Degree deviation
197 ft 659 ft 1131 ft 1345 ft 1622 ft 2062 ft 2560 ft	0.75° 1.25° 1.00° 1.25° 0.75° 0.75° 1.00°
3052 ft 3550 ft 4039 ft 4285 ft 4722 ft 5235 ft	1.00° 1.00° 1.00° 0.50° 1.00°

BIT RECORD

Bit Number	Size	Type	In	Out	Hours
Run 1 Run 2 Run 3 Run 4 Run 5 Run 5A Run 6 Run 7 Run 8 Run 9	17-1/2" 12-1/4" 7-7/8" 7-7/8" 7-22/32" (core) 7-22/32" (core) 7-7/8" 7-22/32" (core) 7-7/8" 7-7/8"	Veral ETD34	0 89' 1345' 4285' 5110' 5170' 5230' 5275' 5335' 5349'	89' 1345' 4285' 5110' 5170' 5230' 5275' 5335' 5349' 5430'	6.25 hrs 17.75 hrs 50.75 hrs 43.25 hrs 3.50 hrs 2.75 hrs 3.75 hrs 3.50 hrs 0.50 hrs 4.0 hrs

CASING PROGRAM

20" hole size to 89 ft	13-3/8" Galvanized
12-1/4" 89 – 1345 ft	9-5/8" 36# J or K-55
7-7/8" 0 – 5530 ft	5-1/2" 15.5# K-55 (NOT RUN/ P & A)

DRILLING DIARY

Wednesday	November 27, 2002; Spud and set conductor csg @ 89' and cmtd in
Thursday	November 28, 2002; Drld out w/ 12-1/4" to 1345' and begin setting 9-5/8" surf csg
Friday	November 29, 2002; finish cmtg surf csg
Saturday	November 30, 2002; test csg.
Sunday	December 01, 2002; rig up BOPs.
Monday	December 02, 2002; 1595' drlg 7-7/8" in Chinle/Moenkopi redbeds; mudlogger on loc @
	20:00 hrs, begin logging. Begin full time wellsite geology
Tuesday	December 03, 2002; midnight depth: 3052' drlg 7-7/8" in Permian Cutler redbeds
Wednesday	December 04, 2002; 05:00 depth: 4215' drlg 7-7/8" in Penn Honaker Trail Le se & ch
Thursday	December 05, 2002; 05:00 depth 4657' drlg 7-7/8" in Penn Honaker Trail I s ss & sh
Friday	December 06, 2002; 05:00 depth 5035' drlg 7-7/8" in lwr HT; TOOH for Upr Is core #1
	(a) 1/:00; TlH w/core bbl, cut 60' core in 2.75 hrs: TOOH w/core #1
Saturday	December 07, 2002; 05:00 depth 5170' lay down core #1 @ 06:00: TIH for Upr Is core
	#2; cut 60' core in 2.25 hrs, TOOH w/core #2; TIH w/bit #6 and drl to next core
	pt. in Lwr Is
Sunday	December 08, 2002; 05:00 depth 5276'; TIH for core #3 in Lwr Is; TOOH w/core #3,
	11H w/test tools for DST #1 5310-5335; DST IO w/strong blo @ 23:20 hrs
Monday	December 09, 2002; 05:00 depth 5335'; completed DST & pull test tool rec 813' SW no
	oil; TIH w/bit #6 and resume drlg @17:30; Drld 14' and got stuck in
	hole when making conn; Worked pipe for 1.5 hrs, over-pull caused pipe
	to part; Re-string kinked drill line and call Weatherford for fishing job
Tuesday	December 10, 2002; 05:00 depth 5349'; TOOH w/fish, lay down bent/broken pipe;
	inspect drill collars; Mudlogger released
Wednesday	December 11, 2002; 05:00 TIH, rabbit drill pipe; resume drlg; reached TD 5430 @
	15:15 hr; circ and short trip; TOOH; Schlumberger Loggers on Loc @ 20:30
Thursday	December 12, 2002; TD 5430'; Loggers finish @ 08:30; plugging well instructed by
	operator; Cement on loc, Halliburton plugged well
Friday	December 13, 2002; TD 5430'; Aztec Rig 289 released; Compile geol rept data
Saturday	December 14, 2002; Complete Wellsite Geological Report and e-mail rept to operator
	2 . At topt to operation

TABLE 1 Pre-spud Geological Well Prognosis

For the Marie Ogden #1 well, senw Sec 22-T31S-R23E; San Juan County, Utah Surveyed G.L. = 6498' estimated K.B. = 6510' (all Subsea values based on this KB value)

Geologic tops	Drlg Depth	(Structure tops)	Thick	ness Description
Morrison Fm.	Surface			
Entrada Ss	50'	+6460'	375	
Navajo Ss	425'	+6085	420'	
Kayenta Fm.	845'	+5665'	210'	
Wingate Ss	1055	+5455	290'	
Chinle Fm.	1345'	+5165'	455'	suggested 0. 5/9" to 12.50
Shinarump Cgl	1800'	+4710'	60'	suggested 9-5/8"csg to 1350"
Moenkopi Fm.	1860'	+4650'	265'	
Cutler Group	2125	+4385	1600'	Top/Permian
Porous Ss	2415'	+4095	100'	possible fresh water sand
Honaker Trail Fm.	3725'	+2785		(HT – UI) Top/Pennsylvanian
La Sal Shale	4515'	+1995'	335'	l st black shale
Hatch cycle	4850'	+1660'	215'	1 black state
Upper Ismay	5065'	+1445'	125'	Top/Paradox Fm
UI T/anhydrite	5110'	+1400'	15'	TOP/T aradox Pili
UI bs/anhydrite	5125'	+1385'		Core #1 @ 5120'
Hovenweep Shale	5190'	+1320'	34'	Core #1 (a. 5120
Lower Ismay	5224'	+1286`	100'	
LIs T/anhydrite	5239'	+1271'		
LIs bs/anhydrite	5279'	+1231'	40'	Core #2 @ 5275'
Gothic Shale	5324'	+1186	50'	0010 112 100 0270
Desert Creek	5374'	+1136	NDE	
LDC salt	5434'	+1076		
TD	5440'	+1070'		
BHT	115° F			

TABLE 2: WELL LOG FORMATION TOPS
For
ST OIL #1 Marie Ogden State

Geologic tops	Drilling Depth	Structural tops KB, 6510 f					
Spud well in Tidwell Mbr of Morrison Fm Entrada SS 43 ft +6467 ft							
Navajo SS	43 ft	÷6467 ft					
•	434 ft	+6076 ft					
Kayenta Fm	844 ft	+5666 ft					
Wingate SS	1026 ft	+5484 ft					
Casing set to	1345 ft	+5165 ft					
<u>Triassic</u> – Chinle Fm	1352 ft	+5158 ft					
Shinarump Ss	1730 ft	+4780 ft					
Moenkopi Fm	1808 ft	+4702 ft					
Permian - Cutler Group	2118 ft	+4392 ft					
Top Pennsylvanian							
Honaker Trail Fm	3730 ft	+2780 ft					
La Sal Shale	4544 ft	+1966 ft					
Hatch zone	4850 ft	+1660 ft					
Paradox Shale	5051 ft	+1459 ft					
Top/Paradox Fm							
Upper Ismay	5094 ft	±1416 ft					
Top/anhy	5144 ft	+1366 ft					
Base/anhy	5163 ft	+1347 ft					
Hovenweep Sh	5190 ft	+1320 ft					
Lower Ismay	5224 ft	+1286 ft					
Top/LIs anhy	5248 ft	+1262 ft					
Base/LIs anhy	5304 ft	+1206 ft					
Gothic Sh	5324 ft	+1186 ft					
Desert Creek	5372 ft	+1138 ft					
Top/UDC anhy	5386 ft	+1124 ft					
Base/UDC anhy	5400 ft	+1110 ft					
Top/Pdx Salt	5428 ft	+1082 ft					
TD	5430 ft	+1080 ft					
BHT (logger) 100° F							
BHT (tester) 110°F							

LOG ADJUSTED LITHOLOGIC DESCRIPTIONS from 1352' to TD

Top of Triassic: The Chinle Fm.

Chinle Fm: 1352 – 1808 ft; The Chinle Formation was named by Gregory (1917) for exposures along Chinle Valley of northeastern Arizona about 120 miles south of the drill site. The Chinle Fm covers a broad portion of northeastern Arizona and southeastern Utah, and is subdivided into several formal members. Locally, the Chinle is only divided into two parts; the uppermost *undifferentiated* interval and the basal *Shinarump Member*. The Shinarump Member was originally named the Shinarump Conglomerate (Gilbert, 1875) but later mapping by Stewart (1957) assigned this sandstone unit to member status of the Chinle Fm.

The undifferentiated interval consists of intercalated thin beds of brick-red shales and claystones with salmon-pink to brownish red fine-grained sandstones and siltstones. This interval accounts for much of the uphole sloughing (see caliper log). Calcareous argillaceous stringers occur below 1580 ft. Red to purple shales immediately overlie the Shinarump sandstone (1730 – 1808'), which is composed of purple to red and brown fine-grained quartzose sands that are poorly indurated. The Shinarump is a fluvial siliciclastic unit and is better developed to the west, north and south of the drill site. This sandstone is a major source of uranium ore in the region. In outcrop, its' base is disconformable with the underlying Moenkopi Fm, and commonly exhibits scour and erosion features (i.e., basal conglomerates).

Moenkopi Fm: 1808 – 2118 ft; The Moenkopi Fm was named by Ward (1901) for a sequence of rocks that lay between the Permian Kaibab Ls and the overlying Shinarump Sandstone. Baker and Reeside (1929) extended the formation into the drill site area and beyond. Throughout this area, and extending southward to Monument Valley, Arizona, the Moenkopi disconformably overlies the Permian Cutler Group. The Moenkopi consists of slightly browner redbeds comprised of fine-grained siltstone and sandstone, and micaceous shales.

Top of Permian: The Cutler Group 2118 - 3730 ft.

The Cutler section was first defined and named as a formation by Cross and Howe (1905) for exposures in the San Juan Mountains in southwestern Colorado. Later, in the Monument Valley area, Baker and Reeside (1929) identified five members of the Cutler and named them in ascending order as; Halgaito Tongue, Cedar Mesa Sandstone Member, Organ Rock Tongue, De Chelly Sandstone Member, and Hoskinnini Tongue. Stewart (1959) later assigned the Hoskinnini Tongue to the overlying Triassic Moenkopi Fm. Wengerd and Matheny (1958) raised the Cutler to group status and the members to formation status.

In the Marie Ogden #1 wellsite, the Permian section is an undifferentiated complex of interbedded red to maroon shales and hematite-stained, fine- to coarse-grained sandstones. Immediately to the west, in the Needles District of Canyonlands National Park, the aforementioned members begin to become recognizable units where redbeds of the Organ Rock Shale are intercalated with white sandstones of the Cedar Mesa Sandstone.

Top of Pennsylvanian: The Hermosa Group 3730 – TD 5430 ft.

The name "Hermosa Formation" was first applied by Cross and Spencer (1899) to Pennsylvanian rocks in the San Juan Mountains of southwest Colorado. Later, Baker, et al (1927) correlated the Hermosa to the limestone canyon walls of the San Juan River in the Mexican Hat area. Wengerd and Matheny (1958) raised the status of this interval to group status, and subdivided the group in to three formations, in ascending order: the Pinkerton Trail Fm, the Paradox Fm, and the Honaker Trail Fm. Baars, et al (1967) proposed the usage of the chronostratigraphic term "Four Corners Stage" and subdivided the Paradox Fm in to four biostratigraphic "substages" in descending order; the Ismay substage, the Desert Creek substage, the Akah substage, and the Barker Creek substage. The term "Alkali Gulch was informally proposed for basal Paradox evaporites and restricted carbonates in southwestern Colorado by Peterson and Ohlen (1963). Hite and Buckner (1981) informally correlated Paradox salt cycles to the Four Corners substages, and Baars and Stevenson (1982) formally dropped the usage of "Four Corners Stage" and upgraded the substages, in descending order as; the Upper Ismay, Lower Ismay, Desert Creek and Barker Creek stages.

Present-day petroleum workers have modified these formal units somewhat, and added several "informal" names to add to the confusion. As best I can decipher, and try to use, this is the vertical succession, in descending order, with time-equivalent salt cycle noted in parentheses:

Honaker Trail Fm = top of Pennsylvanian marine limestones and shales La Sal marker = lowermost cycle of Honaker Trail Fm Hatch zone = (salt cycle 1 of Paradox), yet still included in lower Honaker Trail Paradox Shale = 1st black "shale" separating Hatch from Upper Ismay Stage Paradox Formation = top of salt cycles except in small part of northeast Paradox basin Upper Ismay Stage = (salt cycle 2) Hovenweep Shale = 2nd black "shale" in Paradox sequence Lower Ismay Stage = (salt cycle 3) Gothic Shale = 3rd black "shale" in Paradox sequence Desert Creek Stage = (salt cycles 4 ± 5) Chimney Rock Shale = 4th black "shale" in Paradox sequence Akah Stage = (salt cycles 6.7.8.9 and 10) Unnamed, or "D" Shale = 5th black "shale" in Paradox sequence Barker Creek Stage = (salt cycles 11 thru 19) Alkali Gulch "zone" = (salt cycles 20 thru 29, or more depending on author) Pinkerton Trail Fm = defined by first non-evaporite carbonate cycles

[Obviously, terminology needs some standardization for the Paradox Formation]

Honaker Trail Fm: 3730 – 5094 ft; The Honaker Trail Formation is the uppermost unit of the Hermosa Group and consists of cyclically alternating marine carbonates and siliciclastics that grade upward into more massive arkosic sandstones and siltstones derived from the emergent Ancestral Rockies to the east. This vertical and eastward thickening of arkosic clastics indicates the gradual withdrawal of the Paleozoic sea from the uplifting Paradox shelf. The type section for the formation is located less than two miles west of the Goosenecks overlook at Honaker Trail, and was upgraded to formation status by Wengerd and Matheny (1958; Stevenson, 2000). At Goosenecks overlook, the massive limestone rim rock defines the lithostratigraphic boundary between the overlying Halgaito redbeds (Permian) and the underlying Honaker Trail Formation (Pennsylvanian). Closer examination reveals that several layers of red siliciclastics are interbedded with the underlying carbonates, and that thin, discontinuous limestone beds extend upward into the Halgaito siltstones. This alternating pattern of gray ledge-forming limestone with softer, slope-forming redbeds is beautifully exposed on the west dipping flank of the nearby Raplee anticline, forming a prominent "zigzag" pattern (Stevenson, 2000, p.439, fig.9).

In the ST Oil Marie Ogden #1 State well, the Honaker Trail sequence gradually increases downhole in marine carbonates and gray-green shales as red beds diminish. The formation is approximately 300 ft thicker than seen in outcrop or in the Blanding subbasin and continues to thicken north and eastward into the Paradox salt anticline district and Uncompanger front area. Lithologically, the unit also increases in siliciclastics as carbonate zones diminish. Locally, background gases gradually increase to top of Hatch zone. The first peloidal/skeletal lime mudstone/wackestone was noted at 4180-4200 ft, with increase in gray argillaceous shale and siltstone.

La Sal Shale: 4544 – 4578 ft; this is an informally named unit in the lower Honaker Trail Fm. This is a good reliable drilling marker horizon; consisting of the first occurrence of dark gray argillaceous, silty organic rich lime mudstone. This facies becomes progressively darker and richer in organics downhole. This facies is interpreted as moderate anoxic to anaerobic sediment deposited during rapid transgressions during initial flooding of marine incursions across the shallow Paradox shelf. Background gas increased from 10-20 units to 40 units. No visible porosity or hydrocarbon shows.

La Sal cycle: 4578 – 4882 ft; this is an informally named unit in the lower Honaker Trail Fm. The top of this unit consists of a calcarenite to siliciclastic sandstone cemented by calcite. Quartz grains are very fine to fine-grained, and well sorted. This facies is interpreted as shoreface sand where windblown siliciclastics are transported across the shelf during lowstands of sea level and subsequently reworked by shallow marine waters. The remainder of this cycle consists of light-gray to tan carbonate zones (10' - 15' thick) interbedded with 3' - 10' thick zones of dark carbonate "shales" and/or silty argillaceous shaly lime siltstones, indicating alternating conditions on the shelf from shallow marine (light-colored carbonates) to deeper water, and poorly oxygenated conditions brought on by sea level rise (dark-colored silty dolomitic mudstones). No visible porosity or hydrocarbon shows.

Hatch cycle: 4882 – 5051 ft; this is an informally named unit in the lower Honaker Trail Fm (or uppermost Paradox Fm), and is actually time-equivalent to the uppermost Paradox salt cycle (cycle 1 of Hite and Buckner, 1981) in the very northeastern most portion of the Paradox basin (northeast of Moab, UT). Here, the Hatch cycle consists of alternating parasequences of normal marine shelf carbonates and poorly oxygenated silty carbonate mudstones similar to those described above in the La Sal cycle. No visible porosity or hydrocarbon shows.

Paradox Shale: 5051 – 5094 ft; recognized as the top of Paradox Fm in the south-central portion of the greater Paradox basin. This interval is a very dark gray to black, organic-rich silty lime mudstone deposited during poorly oxygenated conditions due to rapid sea level rise, and marks the first significant "cycle-bounding shales" in the upper Paradox stages. Background gases increase from 20 units to 196 units. No visible porosity or hydrocarbon shows.

Upper Ismay Stage: 5094 – 5190 ft; (see Figure 1). Across the south-central shelf of the Paradox basin, the Upper Ismay is a cyclically deposited 4th order sequence of low to moderate energy, open marine bioclastic platform carbonates that alternate with black cherty argillaceous organic rich calcareous mudstones. It is further subdivided into <u>four 5th-order sequences</u>, or substages, in ascending order as follows: Substage I: 5190 – 5174 ft; Substage II: 5174 – 5163 ft; Substage III: 5163 – 5144 ft; & Substage IV: 5144 – 5094 ft. [See core report for detailed descriptions]

Substages I and II are normal marine carbonate platform facies with gray to brown skeletal (crinoidal to peloidal) mudstone to wackestone textures (5170.5-5177.5 ft) grading downward into brecciated incipient mound to mud-mound facies (5177.5-5184.0) with traces of bleeding oil [See core report for detailed descriptions]. Porosities are typically ineffective (biomoldic/ intraparticle). This interval is equivalent to the algal mound productive zone in the central Blanding subbasin play (Kiva field for example). However, this zone is considered non-productive here. Minor visible hydrocarbon shows and porosity were noted in whole core samples.

Substage III is a massive anhydrite (chickenwire-laminated) from 5144-5163 ft, and is typical of the capping anhydrite facies throughout the productive portion of the Blanding subbasin to the south.

Substage IV (from 5094 to 5144 ft) is a brown-gray dense silty to sandy lime mudstone interpreted as a basin-filling peritidal to restricted lagoonal facies. The characteristic "rabbit-ears" anhydrite caps this sequence.

Hovenweep Shale: 5190 – 5224 ft; Black laminated organic-rich calcareous mudstone (Figure 1) This "cycle-bounding shale" is the first recognized source rocks in this portion of the Paradox basin and thickens to the north and east of the well site. Shale gas reached 265 units, but no fluorescence was noted.

Lower Ismay Stage: 5224 – 5324 ft; (Figure 2); Across the southern shelf of the Paradox basin, the Lower Ismay is a cyclically deposited 4th order sequence of low to moderate energy open marine to restricted bioclastic platform carbonates that alternates with black argillaceous organic rich calcareous mudstones, and restricted lagoonal evaporites and silty dolomitic mudstones. It is further subdivided into four 5th-order sequences, or substages, in ascending order as follows: Substage I: 5320 – 5324 ft; Substage II: 5304 – 5320 ft; Substage III: 5248 – 5304 ft; & Substage IV: 5224 – 5248 ft.

Substage I is a dense non-porous, dark gray dolomitic mudstone. This zone is non-productive throughout most of the basin.

Substage II is a <u>dolomitized algal mound facies and constitutes the primary objective in this well</u>. [See core report for detailed descriptions] The upper 4 ft (from 5304 to 5308 ft) is a dolomudstone "drape" facies with minor oil staining or fluorescence. The interval from 5308 to 5320 ft exhibited small

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vugs and pin-point pores with blue-green oil staining in 50 to 80% of core with rapid to moderate streaming cut. Gas increased to 334 units.

Substage III is a massive thinly-laminated to disrupted-laminated anhydrite bed in this well and provides an excellent seal to substage II carbonate porosities when present.

Substage IV is a silty to argillaceous to anhydritic dolomite mudstone.

Gothic Shale: 5324 – 5372 ft; (Figure 2); This "cycle-bounding shale" is the second recognized source rock in this portion of the Paradox basin. This interval consists of black laminated dolomitic to calcareous, organic-rich mudstone. The Gothic shale is the primary petroleum source bed for upper Paradox objectives. Background gases increased to over 300 units across this interval.

Desert Creek Stage: 5372 – TD (5430'); Throughout the Paradox basin, the Desert Creek is a cyclically deposited 4th order sequence of low to high energy open marine bioclastic platform carbonates that alternate with black cherty argillaceous organic rich dolomudstones, and restricted lagoonal silty dolomudstones and evaporites. Here, the upper Desert Creek cycle 4 evaporite consists of a bed of massive anhydrite (5386-5400'), and the lower Desert Creek cycle 5 evaporite constitutes the top of the Paradox salt section. Top of salt was penetrated beneath a thin cycle 5 anhydrite at 5428 ft. The well bottomed in salt at 5430 ft.

PRELIMINARY CORE DESCRIPTIONS

[NOTE: Detailed core descriptions, core photos, porosity & permeability data and thin section petrography will be compiled in a separate companion report.]

CORE #1: 5110 - 5170 ft: Upper Ismay

Core #1 was cut higher in the section than planned, but drill bit wear and noticeable increase in bit shavings, combined with irregular rate of penetration was finally confounded by loss in pump pressure and a needed trip out of hole to find hole in drill pipe. Rather than go back in hole for a few tens of feet, I decided to go in with core run #1.

5110.0-5110.8 ft – black laminated lime mudstone; trace pyrite; large elongated bedding-parallel chert nodule @ 5110.5 ft.

5110.8-5144.0 ft – Calcareous brown-gray dense sandy to silty lime mudstone (Restricted Intermediate Platform facies). Small anhydrite blebs disseminated from 5127.4-5130.0 ft.

5144.0-5163.0 ft - Anhydrite, white and mottled with thin laminae and blocky disruptive and brecciated bedding.

5163.0-5163.5 ft – mixed anhydrite and lime mudstone.

5163.5-5170.5 ft – non-skeletal dark gray argillaceous lime mudstone grades downward to skeletal wackestone (thin-shelled brachiopods, small crinoids; skeletal cap facies) in lower 3-4 ft with lowermost 18" consisting of a black laminated mudstone. No hydrocarbon fluorescence noted.

CORE #2: 5170.5 - 5232.0 ft: Upper Ismay, Hovenweep Shale

Core #1 cored substantially faster than drill bit, so I elected to run core #2 immediately, as these next feet would be the Upper Ismay target (substage I-II carbonate mound or equivalent facies). Core #2 cored even faster than core #1.

5170.5-5177.5 ft – very dark gray lime mudstone to wackestone (crinoidal and brachiopod skeletal cap facies); stylolite @ 5174.8 ft.

5177.5-5184.0 ft – brecciated tight mound flank/"mud mound"; calcareous boundstone with scattered algal blades and brachiopods; intraclasts are angular and well cemented; with little to no visible porosity. Blue-green hydrocarbon fluorescence ranged from spotty in upper portion with 10-15% fluorescence in pin point porosity from 5179.5-5182.3 ft.

5184.0-5191.5 ft – dark gray skeletal (thin-shelled brachiopods) mudstone/wackestone grading downward to non-skeletal mudstone; minor spotty fluorescence.

5191.5-5224.0 ft – <u>Hovenweep Shale</u>: black laminated lime mudstone; poker chip lamination; pin-point to spotty hydrocarbon fluorescence.

5224.0-5232.0 ft – <u>Top of Lower Ismay</u>: thin laminated medium-gray lime mudstone with wispy laminae; no visible porosity; rip-up lithoclasts; bedding parallel fluorescence up to 15% noted from 5227.7-5232.0 with sub-vertical fracture with fluorescence @ 5228.5 ft.

CORE #3: 5275.0 - 5335.0 ft: Lower Ismay, Gothic Shale

5275.0-5303.0 – White to gray-white laminated anhydrite; restricted evaporite lagoon facies

5303.0-5308.4 ft - Drape facies; dark gray dolomudstone

5308.4-5310.0 - Dolomitic skeletal cap facies

5310.0-5320.0 Dolomitic Algal Mound facies; strong hydrocarbon odor and live blue-green oil fluorescence from 5309-5321 ft; good pin point, intercrystalline, interparticle and small vuggy porosity; larger vugs filled with radial fibrous cement, and dead oil flecks up to 5%.

5320.0-5323.0 ft – Tight dolomitic dark gray brown mudstone with trace fluorescence.

5323.0-5335.0 - Gothic Shale: black laminated dolomitic to calcareous (downhole) mudstone; poker chip; good strong odor; no fluorescence. END OF CORE

DRILL STEM TEST: 5310 - 5335 ft:

Conventional Bottomhole Test was requested with bottom packer to be at 5301 ft. After test was run it was noticed that the tester had juxtaposed numbers and set bottom packer seat at 5310 ft in drape porosity zone but apparently didn't cause misrun (see charts). I do have some concern, as this zone does produce oil in several wells in the Blanding basin from intermound stacks in the Upper Ismay porosity zone (see Tincup and Kiva fields).

IHP: 2669#

IOP: 15" 66#-216# ISIP: 60" 1852# FOP: 60" 247#-442# FSIP: 369" 1882# FHP: 2670#

Initial flow started with a strong blow on 1/8th choke; second flow opened with a weak blow on 1/8th choke and built to 8 oz. pressure at end of flow period. Pipe recovery was 40 ft of slightly gas cut mud and 773.5 ft of salt water (165,000 ppm chlorides).

GEOLOGICAL SUMMARY

- 1. Preliminary observation of cored Upper Ismay "mound" facies confirms earlier petrographic investigation of nearby wildcats; the reservoir facies is calcareous and tight with minor oil shows and appears to be a secondary objective at best.
- 2. Preliminary observation of core and DST from Lower Ismay "mound" facies demonstrates live and dead oil shows, dolomitization as predicted, and resultant effective porosity with moveable fluids in the reservoir. Recovered water with salinities of 165,000+ suggests mostly formation recovery but I still suspect mixed filtrate dilution and question the location of lower packer seat on DST tool.
- 3. Oil that may be trapped in the reservoir lies in an up dip direction to the south, southwest or west; all of which lies outside the seismic grid area. The Lower Ismay porosity zone in this well is only 9 feet higher than that in the Major Martin well, with apparently less porosity and 3 feet thinner.
- 4. Upper Ismay and Lower Ismay targeted zones are "regional" when compared to wells in the area; and lead one to wonder what "amplitude anomalies" mean relative to porosity development and geophysical identification.

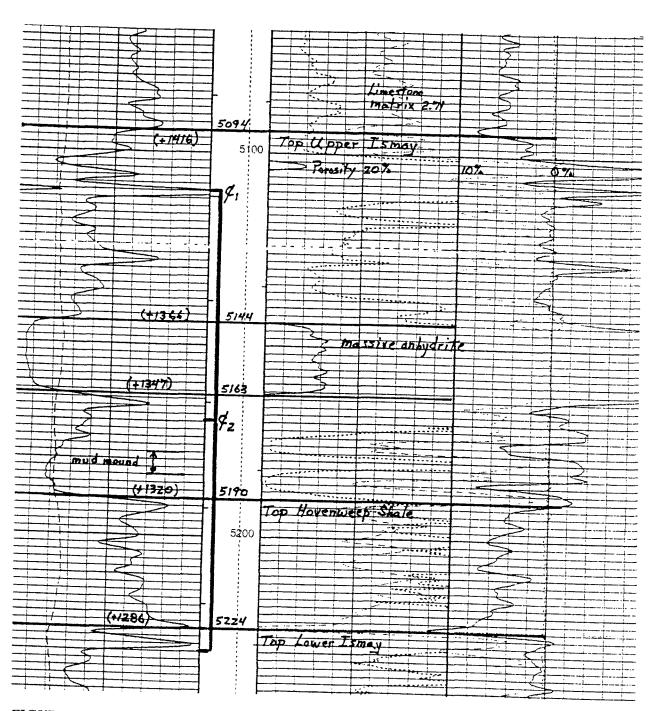


FIGURE 1: Neutron/Density Log of Upper Ismay zone in the ST Oil #1 Marie Ogden well showing tops and cored intervals.

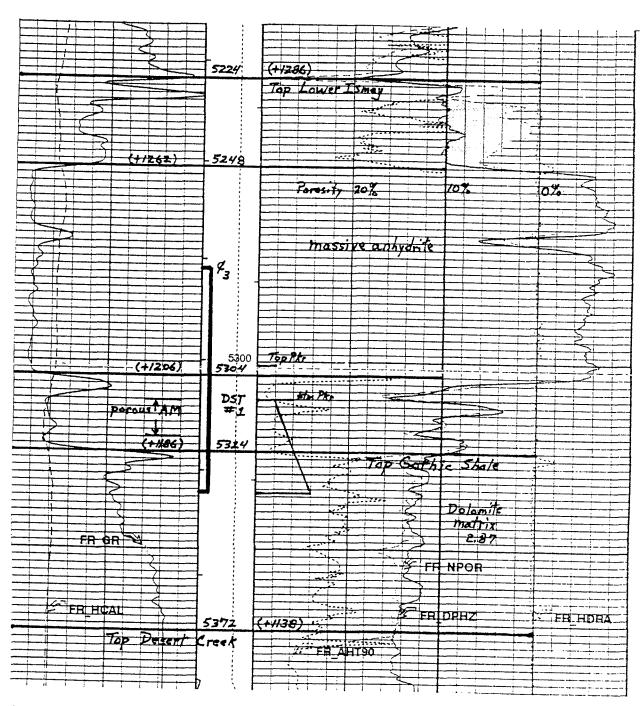


FIGURE 2: Neutron/Density Log of Lower Ismay zone in the ST Oil #1 Marie Ogden well showing tops, cored intervals, and DST interval.

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Thank you for the opportunity to be your consulting well site geologist.

It has been a pleasure.

Sincerely,

Gene M. Stevenson, CPG #06232

HISTORICAL OVERVIEW

MARIE OGDEN LED SPIRITUAL GROUP IN SAN JUAN COUNTY

W. Paul Reese History Blazer, April 1995

In September 1933 a band of religious settlers led by Marie Ogden chose Dry Valley, about fifteen miles north of Monticello, as the headquarters for their spiritual community. Shortly after arriving, Ogden purchased the county's only newspaper, the San Juan Record, which she continued publishing. The only change in its format was the addition of Ogden's column, "Our Corner," in which she declared her revelations on "metaphysical truths." These writings failed to rouse much excitement in southeastern Utah—at least not until April 4, 1935, when she included a new section called "The Rebirth of a Soul."

Ogden's original followers came mostly from around Boise, Idaho, where she had been lecturing on occult subjects prior to her move to Utah. But her occultism can be traced farther back than Boise. Following her husband's death in 1929, Ogden devoted her life to spiritual studies and for a time formed an alliance in New Jersey with another spiritualist, William Dudley Pelley. In 1909 he began issuing his own "religio-sociological" monthly called the Philosopher and over the years owned several newspapers that he used to spread his message. Ogden found that she disagreed with some of Pelley's emerging political leanings, and to prevent contamination of her followers she broke ties with Pelley and removed her School of Truth from his organization.

By this time, Ogden was spiritually independent anyway; she had developed her own link to heaven. She claimed that her typewriter, through divine manipulation, received messages that told her God's will; it began directing her to seek out the spot where God's "kingdom" should be built. In the meantime, she toured the country, lecturing, spreading truth, and establishing reading societies and study groups. Eventually, messages from her typewriter informed her that Dry Valley in southeastern Utah was the axis of the earth and that she should locate her Home of Truth there. Upon arrival in Utah, Ogden, having learned something from Pelley, bought the local newspaper to use in disseminating her message.

Ogden's small band of believers followed her to the Beehive State's desert country and busied themselves in establishing God's kingdom. To qualify for membership in that kingdom colonists had to renounce all personal goods, become semi-vegetarians, and pledge obedience to the "word" that came from Marie's typewriter. The group of truth seekers lived communally and largely relied upon the Lord to provide daily sustenance. They built their kingdom in three groups of buildings, the innermost of which housed Ogden's "Home of Truth" where several times a day her typewriter came alive with revelations from heaven. According to the revealed "word," Marie's Inner Portal was the very axis of the earth where only those present when the terrible and imminent last days arrived would be spared.

Generally, local Mormons could identify with aspects of Ogden's organization, and most just looked on curiously. Then on February 11, 1935, one of the colonists, Edith Peshak, died of cancer. Peshak had joined the Home of Truth after Ogden promised a cure for her sickness, but the leader's spiritual therapeutics proved ineffective and Peshak died. Ogden asserted, however, that the stricken believer was simply in a state of purification and would soon return to life. Ogden received messages from the dead woman, and three times daily helpers washed Peshak's body in a salt solution and fed it. Ogden herself spread news of the metaphysical truths behind her actions, publishing them in the Record under the heading "Rebirth of a Soul." Needless to say, rumors quickly spread throughout Monticello and into neighboring communities.

Eventually, Sheriff Lawrence S. Palmer ordered a forcible investigation for sanitary purposes. The county attorney, a doctor, and a nurse were all allowed to view the corpse. The doctor found Peshak's body to be in a perfect state of preservation, leaving the attorney no legal grounds to force its burial. In the ensuing two years the rumors subsided, but many of Ogden's original thirty colonists apostatized. Only a dozen or so were left in February 1937 when Ogden again drew attention to her community by announcing that Peshak would soon return to life.

Authorities revived the case and demanded a death certificate be signed. Ogden refused, insisting that Peshak was not dead. Officers searched the Home of Truth but failed to find the body. Finally, Tommy Robertson, a former follower of Ogden came forward. He declared that two months after the original investigation Ogden had ordered him to wrap the body in two sheets and a thin mattress and carry it to a dry wash nearby. Ogden had supervised as Robertson built a pyre of wood and laid the mummy upon it. He soaked the whole mass with oil and lit it on fire. His testimony ended the investigation and nearly ended Marie Ogden's Home of Truth. Following this debacle only a handful of members persisted in the commune, feebly continuing to build the kingdom.

Decades later, the final curtain fell on this unusual religious drama when the contents of Marie Ogden's Inner Portal were sold at auction on October 1, 1977.

Sources: Wallace Stegner, Mormon Country (Lincoln: University of Nebraska Press, 1970), pp. 331-43; San Juan Record, April 4, 11, June 20, 1935; Times Independent, June 13, 20, 1935; Leo P. Ribuffo, The Old Christian Right: The Protestant Far Right from the Great Depression to the Cold War (Philadelphia: Temple University Press, 1983), pp. 26-27; auction broadside in USHS Library



Marie Ogden, a native of New Jersey, came with thirty followers to Dry Valley in San Juan County, [Utah] to establish the "Home of Truth" (From McPherson, 1995, p. 307).